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OCTOBER 9, 1948

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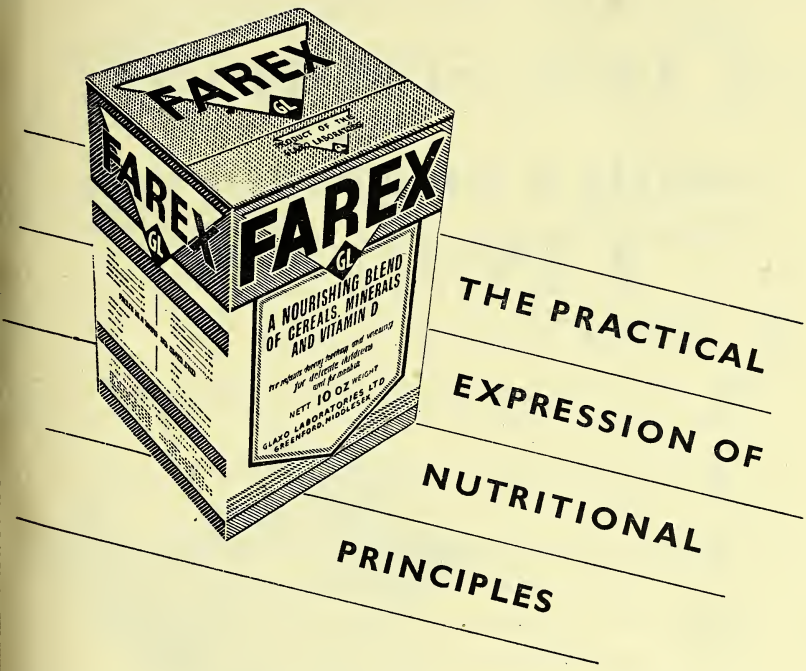

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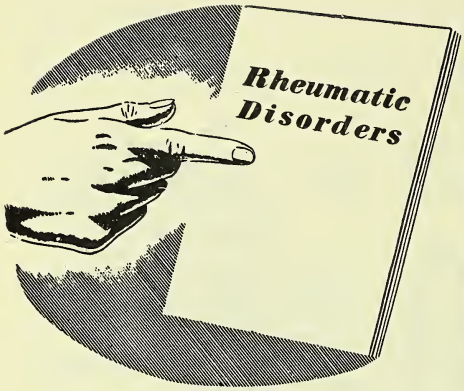

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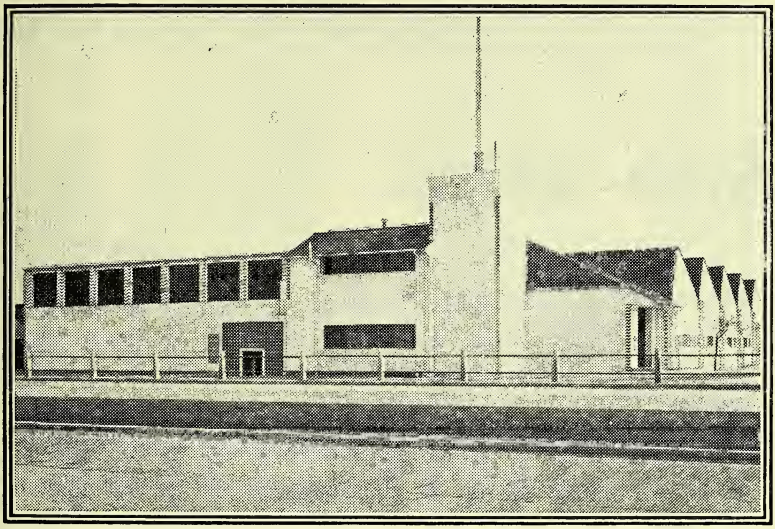

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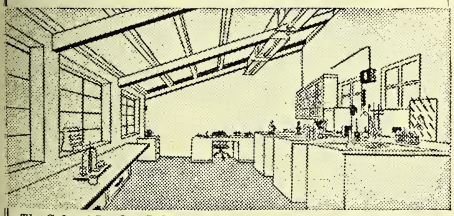

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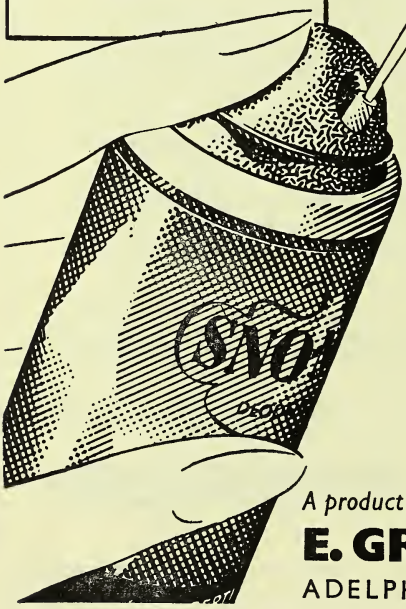

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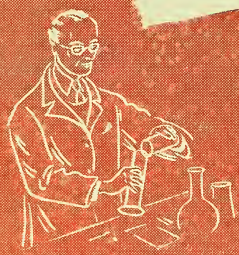
Uses. Bismuth carbonate is prescribed for many forms of gastric disorder and in conjunction with "ant-acids" such as sodium bicarbonate, magnesium carbonate and calcium carbonate, form the mixtures often known as Maclean's Powders widely used for the alkaline treatment of digestive troubles. It is sometimes used in X-ray diagnosis and as a dusting powder.

Packages. 28 lb. parcels, 1 lb. cartons.

Manufacturers: **THOMAS TYRER & CO. LTD.**
Stratford, London, E.15



STERLING
Brand Chemicals

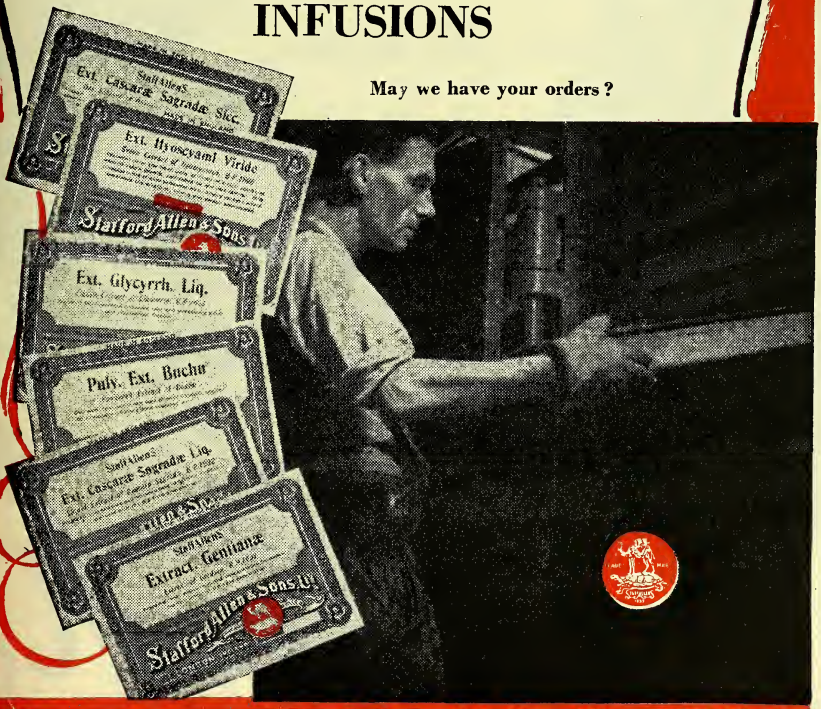
THOMAS TYRER & CO. LTD. · STRATFORD · LONDON · E.15

StaffAllenS
FOUNDED 1833

GALENICALS

TINCTURES
LIQUID EXTRACTS
EMULSIONS, LIQUORS
INFUSIONS

May we have your orders?



STAFFORD ALLEN & SONS LTD. Wharf Road, London, N. 1. 'Phone (LErkenwell 1000 (7 lines)

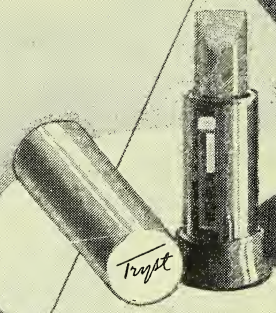
TAS/AL.171

SPOTLIGHT ON....

The new "JUNIOR" Lipstick

★ 6 SPARKLING NEW COLOURS

ROYAL
RED WINE
DAMASK ROSE
PAGEANT RED
PINK TULIP
FATAL APPLE



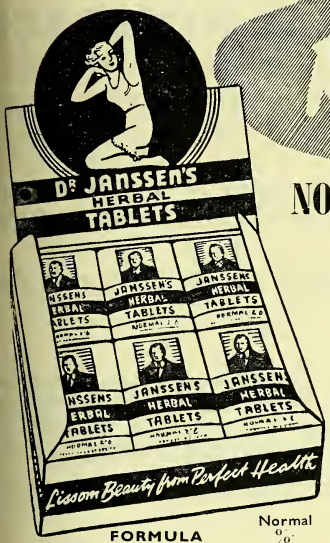
2/6
INC. TAX

☆ All for immediate supply.... plus the lovely standard Shades in the Tryst Range

by ★ Tryst

of REGENT STREET

200,000 Ready-made Customers



NOW TO BE DIRECTED TO CHEMISTS

For the past 12 years Dr. Janssen's Herbal Tablets have enjoyed direct sales to the public now numbering over 200,000. The demand to-day is such that sales through the usual Retail channels of distribution have become essential and this vast, ready-made market is now available to Retail Chemists all over the country.

A big and sustained advertising campaign in the National, Sunday and Provincial Press will announce the change-over, divert sales to the Retail and foster demand.

FORMULA	Normal %
Ext. Cascara Sag. Sicc. B.P.	25.625
Ext. Aloes B.P.C. - -	7.500
Ext. Leptandra B.P.C. -	2.083
Ext. Gentian B.P. - -	3.750
Ext. Taraxaci B.P.C. - -	7.500
Cerevis, Ferment. SICC. -	38.541
Mrryh. B.P. - - -	2.083
Lecithin (Ground Nut) -	3.750
Oleoresin Zingib - -	0.958
Base to - - - -	100.00

HERE ARE TWO SPECIAL PROFIT INTRODUCTORY BONUS OFFERS

BONUS PARCEL A

	Cost	Selling
One doz. 2/6 Dr. Janssen Tablets	16/-	24/-
One only 2/6 ,, ,, ,,	Free	2/-
Gives you 38.4% NETT PROFIT	16/-	26/-

BONUS PARCEL B

Two doz. 2/6 Dr. Janssen Tablets	32/-	48/-
½ ,, 5/11 ,, ,, ,,	19/6	29/-
¼ ,, 5/11 ,, ,, ,,	Free	14/6
Gives you 43.7% NETT PROFIT	51/6	91/6

excluding purchase Tax

Mark your order simply A or B parcel. It can go through your usual wholesaler if desired

Dr. Janssen's Herbal Tablets are packed in small and attractive display cartons. All parcels over £1 carriage free.

Dr JANSSEN'S HERBAL TABLETS

SOLE DISTRIBUTORS

HARRY A. PENNEY (DISTRIBUTORS) LTD.

Barclays Bank Chambers, Kendal, Westmorland

C

THE COOPER LABORATORY · CL

ESTABLISHED 1904

Specialists in the manufacture of Tablets and Pills

40 years of Specialised Manufacturing Experience assure you of

QUALITY and ACCURAC

PACKED TABLETS, with Chemist's Own Nam Labels if desired, supplied in 2 sizes 25's ar 100's (with a few exceptions packed in 50 only).

BULK TABLETS, including NF and NWF line supplied in convenient quantities from 1 upwards.

SACCHARIN TABLETS in pkts. of 100 or in Bu

The Cooper Laboratory

Telephone: 3612 Watford Telegrams: "Science"

The Greatest of All Tonics-

WITH A WORLD-WIDE REPUTATIO

The familiar Phosferine pack has won for itself an enviable world-wide goodwill. It has only to be shown to be sold. And the sales of Phosferine prove how adequately "The Greatest of all Tonics" lives up to its claims. Make the most of the wonderful popularity of Phosferine by ensuring that your stocks are adequate to meet the demand.

PHOSFERINE

TABLETS and LIQUID

The Registered Trade Mark "Phosferine" is the property of PHOSFERINE (ASHTON & PARSONS) LIMITED.

Retail Prices: 1/6 and 3/8 including Purchase T

Sole Distributing Agents in the United Kingdom:
BEECHAMS PILLS LIMITED, ST. HELENS, LANC

MILNER & COKE LIMITED

have pleasure in announcing to the Trade that their

SEIDLITZ POWDERS

are now free of Purchase Tax

Retail Prices :—		Each
Ordinary Strength	-	**3d.**
Extra Strong - -	-	**4d.**
Double Strength -	-	**5d.**

JOHN PENN STREET, LEWISHAM, S.E.13

TIDEWAY 3547

THE ANGLO-FRENCH DRUG Co. Ltd.

Manufacturers and Distributors of Ethical Pharmaceuticals

MYCOLACTINE

A synergetic combination of

BILE EXTRACT, YEAST & LACTIC FERMENTS

for

BOWEL EDUCATION

	Retail (Inc. P.T.)	Wholesale (Ex. P.T.)
Bottle of 50 Tablets ...	3/5½ ...	1/10½
,, ,, 250 ,, ...	15/7 ...	8/6
,, ,, 500 ,, ...	30/9 ...	16/9
,, ,, 1000 ,, ...	60/6 ...	33/-

Supplies obtainable through your usual wholesaler or direct from

11-12, GUILFORD STREET, LONDON, W.C.1

PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis. Mag. Oxide Pond.
Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers by the sole manufacturers :

The WASHINGTON CHEMICAL CO. LTD.

A MEMBER OF THE TURNER & NEWALL ORGANISATION.

WASHINGTON CO. DURHAM

London Office:
Everite House, 59½, Southwark St., S.E.1
Manchester Office:
15, Pollard St. East, Manchester, 10

AMERICAN LATHER SHAVING CREAM

NET WEIGHT 1¼ ozs.

Manufactured by:

WILLIAM A. WOODBURY (Inc.)
NEW YORK

Each in Smart Carton and Original Packing of one gross

PRICE (Including P.T.)

48/- gross Tubes

worth more than double

Sample Tube for 6d. Stamps

SIR JOHN PRATT & CO
89 FORSET COURT, EDGWARE ROAD, LONDON, W.2.
Telephone: Paddington 4104

Spraygloss is back!

To meet the demand for the 'Up-to-the-minute' hair beautifier.

- ***SPRAYGLOSS IS DIFFERENT!*** A new kind of hair-beautifying preparation that sprays loveliness and sparkle into every shade of hair. Spraygloss has been perfected over a long period of test and research.
- ***THE MARKET IS GREAT.*** Now that supplies permit, Spraygloss is being launched nationally. It is already a sales success in the selected areas to which previously it had to be limited owing to material shortages.
- ***IT'S NEW BUSINESS FOR YOU— SIMPLE TO STOCK— EASY TO SELL!***

Spraygloss comes in two types :—

No. 1 for normal or dry hair; No. 2 for naturally oily hair. Both types are sold in complete "bottle with spray" packs and also in refill packs. No complications with different shades for different colours of hair.

- ***YOU CAN STOCK WITH CONFIDENCE*** because Spraygloss :—
  - ★ is marketed by D. & W. Gibbs Ltd.
  - ★ gives generous Trade Terms
  - ★ retails complete with Fyne-mist Spray at **ONLY 5/8** *(inc. tax)*

    Refills 3/2 *(inc. tax)*

Spraygloss

Brings beauty to women – ***PROFIT TO YOU!***

SPT 1-956 D. & W. GIBBS LIMITED

Mothers will thank you for telling them about

the new easier, pleasanter way of

NAPPIE CHANGING

COSTS ONLY 2/9 A BOTTLE
LASTS 3-4 WEEKS

Be the first in your district to give mothers the good news. Johnson's Baby Lotion makes nappie changing quicker, easier and pleasanter. Baby Lotion cleans perfectly and it saves all the time and trouble of sponge, soap and water. With its gentle antiseptic it prevents nappie rash, roughness and soreness, and protects soft baby skin. Also excellent for sunburn and windburn. Give it a good display on your counter because—

Johnson's BABY LOTION

is an EXTRA for you to sell

JOHNSON & JOHNSON (GT. BRITAIN) LTD., SLOUGH AND GARGRAVE

Free Sales helps for
'SUDEX' SENNA PODS

Supplied in 1-oz. coloured Cartons, display outers. Showcard available. Immediate delivery.

The SUDEX SENNA COMPANY
(Props. Matthews & Wilson Ltd.)
6 & 8 COLE STREET, LONDON, S

THE RELIABLE
Edosan
ALL ELASTIC SANITARY BELTS
EDOSAN LTD. 189, CARLTON VALE, LONDON N

BLYTON ASTLEY & CO., LTD.
Eagle Laboratories
LOWER BROUGHTON, MANCHESTER
thank their customers for their patience and for bearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased

---

G. O. WOODWARD & COMPANY LTD.
Specialists in the manufacture of COMPRESSED MEDICINAL TABLETS
PROMPT DELIVERY, MODERN PLANT. HOME & EXPORT Enquiries invited.
Tel.: MACAULAY 4375. **146 Larkhall Lane, Clapham, London, S.W.4**

MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

Malt Extract with added Natural Vitamin

Pepsodent now offer you an entirely new market in

THE NEW ***Pin·up***

CREME DE LUXE

HOME COLD PERM OUTFIT

1 *A brand-new product*

2 *New design*

3 *New components*

4 *At revolutionary new low prices!*

5 *At generous profit margins*

The introduction of the new Pin-Up Home Cold Perm Outfit means that women will now buy permanent waves *over the chemist's counter.* This revolution in hair-waving will boost your profits. Displays in windows and on counters will call the attention of your women customers to Pin-Up. *To show Pin-Up will be to sell Pin-Up.*

RETAIL PRICES

Salon-type Outfit 15/- *(inc. tax)*
With re-usable plastic curlers)

Standard Outfit - 10/- *(inc. tax)*
(With flexible curlers)

Refill Outfit - - 7/6 *(inc. tax)*
(With everything except the Pin-Up curlers)

MESSRS. MAW, SON AND SONS, LTD., OF BARNET, WHO HAVE PREVIOUSLY BEEN THE SOLE DISTRIBUTORS OF PIN-UP, WILL REVERT AS FROM OCTOBER 4TH TO THE STATUS OF WHOLESALERS

PIN 6-1062

2 Products of unique scientific development . . .

SPIC CREAM DEODORANT

The Cream Deodorant that . . . DOES NOT DRY UP—DOES NOT LEAVE A POWDERY RESIDUE

Containing new Principles and Chemicals not previously used in this country—LAUNDRY TESTED to be harmless to fabrics.

16/4 per dozen + 5/5 per dozen Purchase Tax Retail 2/6 inc. tax. Attractive Display cartons available

and

SPIC COLOUR TONE HAIR RINSES

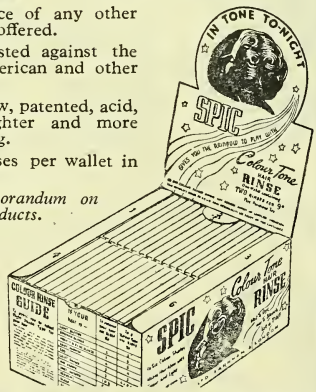
are in advance of any other colour Rinses offered.

Have been tested against the best from American and other Markets.

Based on a new, patented, acid, ensuring brighter and more efficient tinting.

Packed 2 Rinses per wallet in 6 shades.

Send for memorandum on these two products.



Per display carton (3 doz. wallets) 18/- per carton + 18/- purchase tax. Retail 1/3 per wallet.

R. DEMUTH LTD.

FARNHAM · SURREY

DRUGS · GALENICALS · PILLS·TABLETS · PROPRIETARIES · CHEMICALS · APPARATUS

CHEMISTS

IF YOUR LOCATION IS

NORTH EAS

Your Enquiries will be welcomed b

SPEEDY Delivery IN OUR OWN VANS WHEREVER POSSIBLE. Tel. 3207

MIDDLETO & CO. LTD.

BOUNDARY RO MIDDLESBROU

GROUND

DRIED YEAST

MIDGLEY & PARKINSON, LTD

WARREN WORKS, PUDSEY, LEEDS

TAMPAX

SANITARY PROTECTION

Worn Internally

"Silktona"

HOME

PERMANENT WAVE

(Guaranteed)

Price to the Public 3/9 including Tax | Order now from your usual Wholesalers

Sole Distributors:

ALFRED FRANKS & BARTLETT CO. LT

Audrey House · Ely Place · London, E.C

'ASPRO' ACCELERATES BUSINESS

"More display means more sales, means more bonus—and so the wheel turns"—that was one chemist's way of describing how the benefits start mounting up when you display 'ASPRO'. Displaying 'ASPRO', in fact, **ACCELERATES** business—CREATES CUSTOM for other lines, too, and so speeds-up turnover and increases profits. Give 'ASPRO' prominent display and you immediately get the full results of THE MOST ENTERPRISING AND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE COUNTRY. While well-tried methods of 'ASPRO' publicity are being sustained and expanded, every new method which proves of value is used to the full. The result is that

'ASPRO' *is selling to a* GREAT POST WAR PUBLIC

Hundreds of thousands of speedway and football supporters are hearing the weekly 'ASPRO' programme ; millions of cinemagoers are seeing the 'ASPRO' film. Putting in the window a prominent reminder that YOU stock 'ASPRO' is the fastest way of making new and permanent customers.

Made by ASPRO LTD., Slough, Bucks

P.A.T.A.

Flying to Paris

. . . for a week-end with expenses paid? YOU can—if you win first prize in Goya's National Window Display Competition. It isn't often that you can gain more than increased sales by making your window gay and attractive but, if you enter Goya's competition, there's a chance of that trip to Paris or one of the generous cash prizes offered, not only for the best Goya window displays in the National Competition, but also for the five best windows in each of eight different Regional Competitions. The Competitions are open to all Goya stockists in England, Scotland, Wales and the Channel Islands—don't forget to send in your entry form before the closing date, October 25th, 1948.

Goya

161 NEW BOND STREET LONDON W1

WILL PHARMACISTS KINDLY NOTE THAT THE FOLLOWING PREPARATIONS ARE AVAILABLE AGAINST PRESCRIPTIONS, READY PACKED IN **6 oz.** BOTTLES AND IN **40** & **80 oz.** BOTTLES

	6 ozs. INCL. TAX
MIST. BRONCHIALIS ...	2/-
ELIX. BROVAL	2/-
CARMINAT	2/-
NEURATONE	2/-
SYROFANS	2/-
TUSSIBROM	2/-
TRIBROM FORTE ...	2/-
PARIVITAN	3/1
PARATEX...	2/9

SUBJECT TO 33⅓

Physicians have been advised.

GEDEON RICHTER (G.B.) LTD

Telephone: GUL 3478

PARFUMS

FORVIL

PARIS

back . . . at long last
straight from Paris

Famous creations . . . 5 FLEURS
LES ANÉMONES
HYMENÉE

Made, packed and
sealed in France

All enquiries to:—Sole Distributors

STOWER & OAKLEY LTD.,

8 Park Road, Regents Park, London, N.W.1

Tel: Paddington 2172, 6177

YOU SHOULD STOCK
THE FINEST SCURF REMOVING & SCALP CLEANSING SHAMPOO

NUCTA OIL

THE SOAPLESS OIL SHAMPOO

★

Can be recommended with confidence. Nationally advertised

IN 8 oz. BOTTLES SELLING AT 3/10. 25/- per doz., plus tax

CARRIAGE PAID ON NET ORDER OF £2

Obtainable from your Wholesaler or direct from the Manufacturers

STEWART, GOODALL & DUNLOP LTD
121A PRINCES STREET, EDINBURGH

YOUR PROFIT 80% ON COST!

The Renipas counter display box contains 24 x 5½d. packets of Renipas powders, costs 6/10 nett including 1/8½ Purchase Tax and retails at 11/-

HAVE YOU ORDERED YOUR BOX?

Orders for Counter Display Boxes, accompanied by a remittance, supplied only direct from the manufacturers.

RENIPAS CHEMICAL CO. LTD.,
69 Fleet Street, London, E.C.4

NEW—

COMBINED PARCELS

BENGER'S · GENATOSAN · WHIFFEN

From October 1st you can order all **Genatosan** products, all **Benger** products, and **Whiffen** 'Cardophylin' *in one parcel* on *new and overall-generous* terms.

New terms are

£3 mixed parcel . . . 2½% discount
£5 mixed parcel . . . 5% discount
£10 mixed parcel . . . 7½% discount
£12 mixed parcel . . . 10% discount

all specialities are subject to this Parcel Discount

Nett items (bulk N.W.F. tablets; ampoules, etc.) may be used to build up the order value. In this case the subject portion receives discount commensurate with the *total order* value.

★ ★ ★

Every chemist can make up a £12 journey order using those previously mentioned and others such as 'GENAFORMINT', 'CALOGEN', 'FISSAN' Ointments and Powders, nett items, etc.

A suggested parcel

	£	s.	d.
1 doz. x 8/3d. 'SANATOGEN'	3	0	0
1 doz. x 5/6d. ,,	2	0	0
1/12 doz. x 37/6d. ,,	1	2	10
1 doz. x 1/6½d. 'GENASPRIN'		10	0
2 doz. x 2/5½d. ,,	1	12	0
1 doz. x 1/10d. Menthol & Wintergreen Cream ...		12	0
1 doz. x 1/3d. 'COGENE' ...		8	0

	£	s.	d.
1/12 doz. x 250's 'CARDOPHYLIN'		8	10
6/12 doz. x 6/3d. 'BENECOL'	1	7	0
3/12 doz. x 5/6d. 'CHRONALGICIN'		9	0
3/12 doz. x 4/3d. 'AURALGICIN'		7	0
1 doz. x 2/- Benger's Food		19	4
1 doz. x 3/6d. ,, ,,	1	14	0
1/12 doz. x 6/2d. ,, ,,		5	0

Such an order comprises only a fraction of the specialities you are constantly selling . . . . apart from medically prescribed ethicals, and items quoted nett.

BRITISH CHEMICALS & BIOLOGICALS LTD., LOUGHBOROUGH

controlling BENGER'S LTD., GENATOSAN LTD., WHIFFEN & SONS LTD.

Telephone: Loughborough 2292

Tremendous Success

NO WONDER ORDERS LIKE THIS POUR IN...

* "4 gross of Gloria gone in 2 weeks. Send 8 gross more please"

"Urgent—send 6 dozen Gloria"

"Exceptional sales. 4 dozen more Gloria please"

"Please 12 dozen more Gloria immediately"

* *All these statements are true quotations from actual orders coming in by the hundreds!*

Gloria

LIQUID

Shampoo

containing OLESTOL

Washes hair shimmering clean without making it harsh and dry!

It's by Pears

...IT'S NEW

...IT'S DIFFERENT

A. & F. PEARS LTD., ISLEWORTH, MIDDX. PGT 2/923/80

M.28 is a new, safe and deceptively simple preparation giving consistently positive results in relieving menstrual pain. Doctors are now prescribing this form of direct therapy.

If you have no supplies when a patient needs M28—there's one sale lost for at least 28 days.

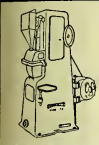
P.A.T.A.

TRADE COST PER DOZEN 2
TAX PER BOTTLE .....
RETAIL PRICE PER BOTTLE 3/

GYNOCLINICAL LABORATORIES LTD
17 Dartmouth Street, Westminster, S.W

MANESTY

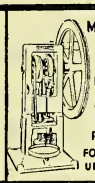
TABLET MAKING MACHINERY



MANESTY F3 TABLET MACHINE

OUTPUT 85 PER MIN.

FOR TABLETS UP TO 3/4" DIAM.



MANESTY HAND TABLET MACHINE

OUTPUT 100 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

MANESTY E2 TABLET MACHINE

OUTPUT 85 PER MIN.

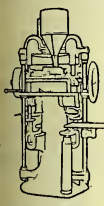
FOR TABLETS UP TO 1/2" DIAM.

MANESTY HAND COMPACT PRESS

OUTPUT 2000 COMPACTS PER DAY

MANESTY CP2 COATING PAN

STANDARD SIZE 30" DIAM.

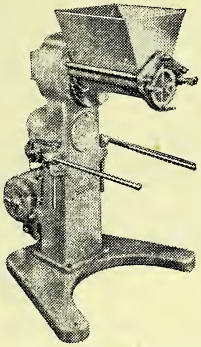


MANESTY B.B.3 ROTARY TABLET MACHINE

OUTPUT 1000-1500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.

ANOTHER OF THE MANESTY NEW MODELS!

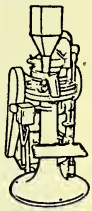


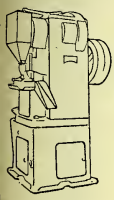
MANESTY "ROTORGRAN" OSCILLATING GRANULATOR

MANESTY B3 ROTARY TABLET MACHINE

OUTPUT 400-500 PER MIN.

FOR TABLETS UP TO 1/2" DIAM.





MANESTY Nº2A TABLET MACHINE

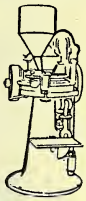
OUTPUT 55-220 PER MIN.

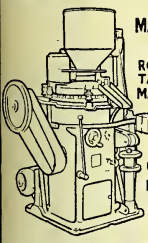
FOR TABLETS UP TO 1 1/2" DIAM.

MANESTY D3 ROTARY TABLET MACHINE

OUTPUT 300-350 PER MIN.

FOR TABLETS UP TO 1" DIAM.

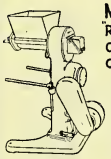




MANESTY R.S.1 ROTARY TABLET MACHINE

OUTPUT 168-336 PER MIN.

FOR TABLETS UP TO 1 3/8" DIAM.

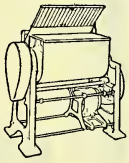


MANESTY "ROTORGRAN" OSCILLATING GRANULATOR

OUTPUT 150-224 LBS. PER HOUR.

MANESTY MIXER

CAPACITY 100 LBS. OF POWDER



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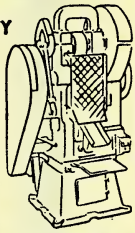

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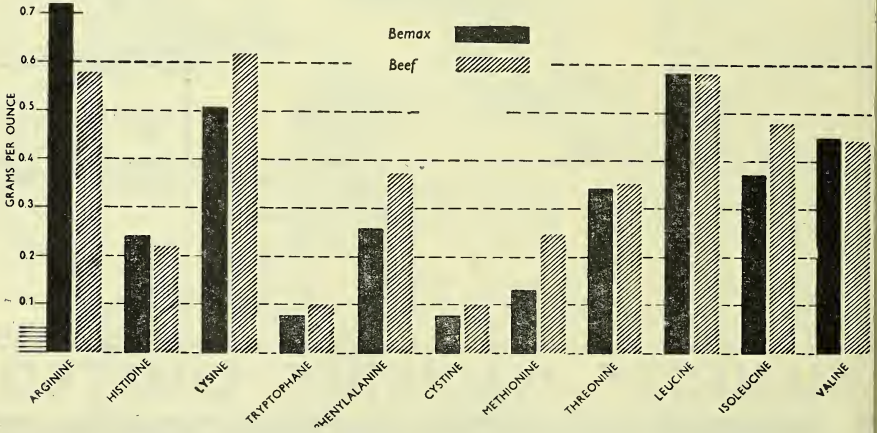

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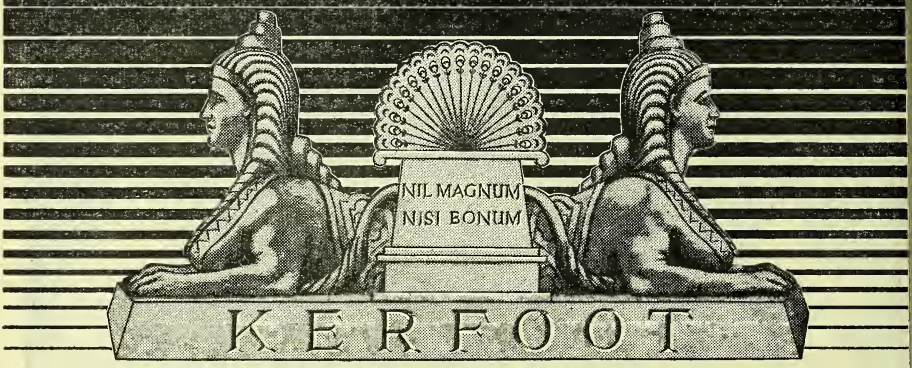

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OCTOBER 9, 1948
Published weekly at 28 Essex Street, Strand, London, W.C.2
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Single copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3581 Volume CL

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NEWS OF THE WEEK

K.I.D. Exemptions.—An Order (S.I., 1948, No. 2169) has been made exempting normal butyric aldehyde (butyl aldehyde) and methylene chloride from Key Industry Duty for the period September 30-December 31.

Tax on Electric Blankets.—The Commissioners of Customs and Excise have decided that domestic electric blankets and warming pads are chargeable with purchase tax at 33⅓ per cent. under Group 12(a) of the purchase tax schedule.

Licences for E.R.P. Imports. — The Board of Trade states that the help given by the United States under the European Recovery Programme is not likely to make it possible to relax present import restrictions. The procedure for applying for import licences (to the Import Licensing Department, 189 Regent Street, London, W.1) is unchanged. Where an item is obtained on E.R.P. terms the applicant will be notified of any additional formalities required. Neither applications nor inquiries should be sent to the officer of the Economic Co-operation Administration.

High Vacuum Technique.—A convention to discuss applications of high-vacuum technique, sponsored by the Society of Chemical Industry, is being held at Gleneagles, Perth, on October 12 and 13. Sir Charles Darwin, K.B.E., M.C., F.R.S. (director, National Physical Laboratory) is to preside, and the programme includes papers on the application of high vacuum technique to dehydration and distillation (by Mr. R. S. Morse, New York), to the distillation of fatty oils (by Dr. E. W. N. Fawcett, B.A., B.Sc.), and to nuclear physics and atomic energy (by Professor M. L. E. Oliphant, F.R.S.).

White Oils Association.—At a luncheon for members of the White Oils Association on September 29, Mr. H. F. Smith (chairman) welcomed the guests among whom were Messrs. K. L. Stock and D. G. Duff (Ministry of Fuel and Power) and Mr. C. M. Merrick (chairman, Petroleum Advisory Committee). Mr. Smith said that the Association was interested in standards of quality for pharmaceutical oils and, as home refiners had an exportable balance,

it would be necessary to ascertain the pharmacopœial requirements of other countries. There was need for further scientific research, and the Association might consider the desirability of pooling results with its U.S. counterpart, the White Oils Council, Chicago. While the Association welcomed all steps to curtail misuse of petroleum products in foodstuffs, legislation must not prevent their legitimate use, as it had done in Belgium and Sweden. Mr. Merrick said that, in all probability, H.M. Government would control petroleum products for some time, and it was the function of the Petroleum Advisory Committee to interpret the decisions of the Ministry of Fuel and Power.

Emergency Reserve Schemes. — The Ministry of Labour and National Service, in a Press notice upon its Emergency Reserves Schemes, states that the object of the Schemes is to enrol volunteers with valuable Service experience who would be urgently needed for operational duties in the early stages of any emergency. It is not proposed to restrict acceptance of volunteers for the Reserves except for persons engaged in a limited range of employments which would also be of exceptional importance in the early stages of an emergency. A list of employments from which for the time being volunteers will not be accepted is given, but the list will be kept under continuous review. Persons classified in a second list will at present be accepted only provisionally. The question whether volunteers can be accepted in some of the categories given will be decided on an individual basis. The list of persons who cannot be accepted includes State-registered nurses and midwives, student nurses, pupil assistant nurses, and pupil midwives, medical, dental, veterinary and pharmaceutical students, and students for a degree or equivalent qualification in science, engineering, mining, agriculture and quantity or land surveying. The list of persons who can be accepted only provisionally includes professionally qualified scientists, members of the medical profession, dentists, and veterinary surgeons; enrolled assistant nurses and mental nursing assistants; and opticians, pathological laboratory assistants, pharmacists, physiotherapists and radiographers.

Burnley Centenary Celebrated.—The staff of Parkinson's, Ltd. chemists and drysalters, Burnley, were guests of the directors at an outing to Grange-over-Sands held on October 1 to celebrate the centenary of the founding of the company.

LOCAL NEWS

Manchester Golf Season Ends.—I the Manchester Pharmaceutical Golfin Society's final meeting of the seaso played at Hopwood on September 29, th captain's team (led by Mr. F. C. Baine beat the president's team (led by Mr. T Miller) in a series of four-ball matches hel during the season.

"Rota Fees" for Isolated Pharmacie —When chemists' rota arrangements wer discussed at a recent meeting of the Wo cestershire Executive Council, the chairma said he felt sure the Minister of Healt would approve a special late duty paymer where it was necessary for an isolated phai macy, not covered by a rota scheme, to ope later than normal hours.

Ipswich By-law Enforcement.—Ipswic borough council has decided to enforc from January 1, 1949, a section of th Ipswich Corporation Act, 1948, requirin that personal weighing machines shall nc be exposed for use by the public unle they have been examined and stamped b an inspector of weights and measures. Th owner or person in charge of any weighin machine that is "false or unjust" is liabl to a fine under the Act.

Conference Cartoon Goes to Brighto —In the auction for the original of th caricatures of British Pharmaceutical Cor ference personalities published in our issu of September 11, the highest bid (£10 10s was made by Mr. Arch. Wilson (secretar of the Local Conference Committee, and o the Brighton and Hove Association o Pharmacy), to whom the drawing has bee forwarded. Mr. Wilson's cheque has bee sent to the Benevolent Fund of the Pharma ceutical Society.

Yorkshire Public Pharmacists.—Th speaker at a meeting of the Yorkshir Branch of the Guild of Public Pharmacist held at York on September 25 was Mr R. H. Henriksen (a member of the Guil Council of the Central Health Service Council). Discussing the National Healt Service and its possibilities for pharmac of the future, Mr. Henriksen urged phar macists to take part in local governmen affairs and other public work and not t limit their interests to their own hospita group.

Chemists' Federation.—At a meeting o the Chemists' Federation Council held o September 30, an application for manufac turer membership from Lewis & Melchior Ltd., 81A Church Road, Hendon, London

N.W.4 (products, Accordine and Stomatex) was accepted. The following additions to schedules of C.F. agreements were approved:—Meggeson & Co., Ltd.: Childrens' Meggezones and Meggeson Vapocreme rub; Westminster Laboratories, Ltd.: Alka-Cip, Kepsins throat pastilles, Kiuma effervescent granules and Magsilate chewing tablets. The resignation of Thos. Robinson Manufacturing Chemists, Ltd., Boundary Street East, Manchester, 1, from wholesaler membership was formally accepted.

IRISH NEWS

Irish Chemical Association's Officers.—The officers of the Irish Chemical Association, for 1948-49 are as follows:—*President,* Professor T. S. Wheeler, D.Sc., F.R.I.C.; *Vice-president,* Mr. D. Crowley, M.Sc., A.R.I.C.; *Treasurer,* Mr. J. G. Belton, M.Sc., A.R.I.C.; *Secretary,* Mr. G. F. O'Sullivan, M.Sc., The Laboratory, 12 Dawson Street, Dublin.

Golf at Elm Park.—In competitions held by the Irish Chemists' Golfing Society at Elm Park on September 29, for trophies presented by Kodak, Ltd., the winners were as follows:—18-holes strokes: Messrs. A. Walsh (12) 71 (first) and S. J. Savage (9) 71 (runner-up). Best first nine: Mr. M. J. McKenna (16) 35. 18-holes bogey: Messrs. J. J. Stafford (18) 1 down (first) and J. Mason (10) 2 down (runner-up).

Proposed Student Organisation.—A proposal to establish an Irish Pharmaceutical Students' Association is to be discussed at the annual meeting of Eire pharmaceutical students to be held in Dublin on October 28. The new body is intended to bring about closer co-operation between students and their elected representatives and to extend the scope of student activities. Licentiates who have been qualified for less than three years may become members.

OVERSEAS NEWS

Italian Import Estimates.—An Italian Government estimate puts the value of imports into Italy of pharmaceutical products during the year ending July 1949 at 1,714.3 million lire.

World Study of Epidemics? — The Pasteur Institute, Paris, has invited the World Health Organisation to use its laboratories, situated throughout the world, for the study of epidemic diseases.

Swiss—Jugo-Slav Agreement.—Switzerland and Jugo-Slavia have signed a trade agreement providing for an exchange of goods to the value of 500 million francs. Chemical products are included in a wide range to be supplied by Switzerland.

E.R.P. Aid to Italy and France.—Allocations of medicinal and pharmaceutical preparations made under the European Recovery Programme during the period April 3—August 31 include $1 million's worth to Italy, and $3 millions' worth to France.

International Drug Control.—A draft international protocol to bring under international control new synthetic "dangerous" drugs not mentioned in the convention of 1931, will come before the United Nations General Assembly on October 8. (See also *C. & D.,* August 19, p. 199.)

TRALEE PHARMACY DANCE.—Members of the Committee responsible for the first social function to be organised by pharmacists in co. Kerry—a dance held in Tralee on September 20. The dance was attended by pharmacists and doctors from many parts of the county, and the guests included Mr. J. P. Kissane, Tipperary (a member of the Council, Pharmaceutical Society of Ireland).

COMPANY NEWS

Allied Colloids (London), Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, medicines, etc. Directors are not named. R.O.: 15 George Street, Mansion House Place, London, E.C.4.

Allied Colloids (Manufacturing) Co., Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of chemicals, medicines, etc. Directors are not named. R.O.: Boundary Works, Idle Road, Undercliffe, Bradford.

Soldruff, Ltd. (P.C.).—Registered in Edinburgh. Capital £100. To carry on the business of manufacturing and general chemists, etc. William B. Paton, M.P.S., and Isabella F. Paton, directors. R.O.: 54 Kempoch Street, Gourock.

Berks & District Supplies (Sundries), Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of, and dealers in, cosmetics and toilet preparations, etc. First directors are to be appointed. R.O.: 46 Market Place, Reading.

Phenogen Proprietaries, Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers of, and dealers in, fine chemicals and chemical products, etc. Nathan Davis and Arnold R. Darnley, directors. R.O.: 62 Chestergate, Macclesfield.

D. M. Smith (Chemists) Ltd. (P.C.).—Registered in Edinburgh. Capital £1,000. To carry on the business of manufacturing and dispensi chemists, etc. Janet Smith, and James S. Paterso M.P.S., directors. R.O.: 14 Airlie Street, Alyt Perthshire.

Shadforth, Ltd. (P.C.).—Capital £100. T carry on the business of manufacturing chemis etc. William Shadforth, Emily H. Shadfort Marcus W. Shadforth, M.P.S., and John Jon directors. R.O.: Mitre Works, Cordova Roa London, E.3.

Adlam-Chelle, Ltd. (P.C.).—Capital £100. T acquire a licence to use and exploit certain lett patent for inventions relating to the manufacture plant, machinery and equipment for washing, lab ling, filling, capping and packing bottles and co tainers for liquids, etc.; and to enter into agreement with Paul L. Chelle. First directors a not named. Solicitors: Slaughter & May, Austin Friars, London, E.C.2.

Timothy Whites & Taylors, Ltd.—An inter dividend has been declared of 12½ per cent., t same as in 1947.

Cow & Gate, Ltd.—All the applicants (excee ing 5,000) for the recent issue of 1,000,000 per cent. redeemable cumulative preference sha of £1 each at 21s. per share (see *C. & D.*, Oc ber 2, p. 428) will receive an allotment.

N.Z. HEALTH SERVICE RECOMMENDATIONS

Important recommendations affecting medical services throughout New Zealand are contained in a report put before the House of Representatives recently by the Minister of Health (Miss Howard). The committee was appointed in October 1947 to examine the provisions affecting the services of medical practitioners and advise what alterations would be necessary to give effect to the Government's policy of making available adequate and proper medical services free, or substantially free, of costs.

Medical Practice

The committee recommends that steps be taken to place upon the medical profession itself a large measure of responsibility for the ethical behaviour of its members and for the general quality of all medical services; and that there should be set up a general advisory committee recognised by the Minister as the principal consultative and advisory body in matters affecting medical services. Other recommendations affecting doctors urge that no practitioner should be permitted to practise under both a capitation system and a fee-for-service system at the same time, and that remuneration by salary should be adopted only in remote areas where it is necessary to assure a definite income to the doctor.

The committee lays emphasis on the principle of a one-fee-for-service method payment from the fund, and recommen that "where the only service is to repe a prescription, no payment should be ma either from the fund or by the patient."

Pharmaceutical Service Changes

The committee makes the highly impor ant and significant recommendation affe ing pharmacists that there should be a pa payment by the patient for his pharmace tical requirements. It wishes to see t formulary issued by the department revis and extended with a view to its gene adoption as a standard of prescribing; a that the present machinery for dealing w abuses, supplemented by the powers whi it is suggested should be conferred on lo investigating committees, should be invok "in all cases where there appears to reasonable evidence of unnecessary . . prescribing."

Proposals that were submitted by an ou side body for the provision of preventi or curative medical services (or both) f groups of individuals in factories, boardi schools, etc., have been adopted by the co mittee, which also recommends offici encouragement for the establishment "joint health medical centres" after fu agreement has been reached with medic practitioners in the areas affected.

TOPICAL REFLECTIONS

Refresher Courses

Requests for refresher courses for pharmacists are heard from time to time, indicating a fairly general feeling of need for bringing acquaintance with scientific research as nearly to date as is practicable. While it is not feasible for busy people to devote much attention to text-books, such people can, by attending lectures and demonstrations, obtain a working knowledge of what is going on in laboratories. They are thus enabled to be of service to their local doctors on the one hand and to the public on the other. The course just beginning at Dundee (p. 426) is a step in the right direction. An example of the kind of subject the courses of this type may cover is found in the concluding instalment (pp. 445-47) of your list of poisons-labelling changes necessitated by the coming into force of the new British Pharmacopœia. The system of typography you have adopted is, no doubt, familiar to your readers, so that they can turn up the name of any substance or preparation listed there and quickly obtain the information needed. Yet a grasp of the system or systems on which the Poisons Board acts is worth acquiring, and in the hands of a good lecturer the subject can be attractive. Again, some of the monographs presented at the recent meeting of the British Pharmaceutical Conference take the average pharmacist into deep water. The paper of Dr. Kenneth Bullock (p. 416) and those of Mr. G. E. Shaw (p. 448) are cases in point. Such communications are, to me, difficult to follow unless I have lately been reading abstracts of similar work.

Calomel and Its Names

The two monographs by Dr. George Urdang briefly summarised in your editorial article on p. 443 confirm the position of the American Institute of the History of Pharmacy as the world's centre of historical research in pharmacy. Competent students in all countries will increasingly draw on the resources of this institution, now seven years of age. In his "Chymia" study Dr. Urdang discusses with scholarly discrimination early processes for preparing mercurius dulcis, with quotations that include two in facsimile. The survey follows the history of the salt down to the determination of its chemical composition. The other monograph, dealing with the origin of the name calomel, has a practical application for our own day; it lends support to the efforts now in progress to evolve some kind of international pharmacopœia and incidentally to curtail the multiplicity of names in use for identical substances. The author cites thirteen names or groups of names listed for mercurous chloride in 1840, and eight more mentioned in 1845. Most of them are, I presume, still in use. For English and Welsh readers the references to the Pharmacopœia Londinensis of 1618 are of special interest. The demonstration that Mayerne was not the discoverer or inventor of calomel is conclusive. That popular physician has claimed in two or three places in his copy of the 1618 P.L., that a preparation annotated is one of his. Had calomel been of this class, he would in all probability have noted the fact. The dose of fifteen grains of mercurius dulcis combined with five of resin of scammony is a typical instance of the way in which our ancestors were physicked.

Berzelius

Just a century ago, in October 1848, "The Gentleman's Magazine" published a lengthy obituary notice of Jöns Jakob Berzelius. Berzelius (see p. 470), who was born in 1779, studied at Upsala University with the intention of adopting a medical career. Two years after graduating, Berzelius was appointed professor of medicine, botany and "chemical pharmacy" at Stockholm. Eventually he became professor of chemistry at Upsala. In 1812 he visited England. At various times he established relations with eighty-eight scientific societies, including our own Royal Society. A few years before his death he was raised to the rank of baron in Sweden. Berzelius is remembered chiefly as the discoverer or co-discoverer of certain elements and as the author of a manual of chemistry which extended to numerous editions. Early in life he accepted the theories of Dalton. In 1822 he began the issue of an annual report on the progress of chemistry and allied sciences, and throughout his life publications of scientific societies bore witness to his industry. It has been said that when science ceases to be international the end of our civilisation will be near. However much or little truth there may be in that statement, it is well that we should remember with respect a scientist who in his day was ranked with Davy and Faraday. He forms a link between those scientists and their successors of the Crookes and Kelvin period. He is to be remembered too for his exemplary perseverance, and accuracy. ***Xrayser***

BIRTH

GRAY. — At Foresterhill, Aberdeen, on September 24, Margaret, the wife of Alexander J. Gray, M.P.S., 300 Great Western Road, Aberdeen, of a daughter.

DEATHS

BARTON.—Recently, after a short illness, Mr. Harold Barton, M.P.S., 157 Westmorland Avenue, Blackpool. Mr. Barton qualified in 1914 and was for twenty-six years chief pharmacist at the Royal Hospital, Chesterfield; he had been recently for some time in business at Blackpool. He is survived by his widow and one son.

BASTION.—In Camborne-Redruth Miners' Hospital, on September 28, after a short illness, Mr. Richard Ronald Bastion, M.P.S., 55 Fore Street, Redruth, Cornwall, aged forty-three. Mr. Bastion is survived by his widow and five children. The funeral service was held at Redruth Wesley Church (with which Mr. Bastion had a lifelong association).

BIGGIN.—On October 1, Mr. Harvey Biggin, 11 Pye Nest Road, Halifax, Yorks, aged fifty-nine. Mr. Biggin founded the business of H. Biggin, Ltd., manufacturing chemists, Bedford Street, Halifax, in 1935. Prior to that date he was for about sixteen years with W. C. & H. Hebden, Ltd., Winding Road, Halifax.

BROCKINGTON.—Suddenly, on September 21, Mr. Stanley Frank Brockington, M.P.S., The Pharmacy, South Brent, Devon, aged forty-eight.

CLEMENTS.—On September 24, Mr. Llewellyn Clements, M.P.S., 15 Park Road, Heaton Moor, Stockport, formerly of 66 High Street, South Norwood, London, S.E.25.

LUCAS.—At Montana Hall, Switzerland, on September 25, Miss Mildred Lucas, the Pyghtel, North Park Lane, Paignton, Devon. Miss Lucas qualified in 1935.

WHITE. — At his home, Milngavie, on September 27. Mr. James White, Scottish area manager of T. J. Smith & Nephew, Ltd., Hull. Mr. White had been associated with the company for the past thirty years.

WRENCH.—On September 21, Sir Charles Arthur Wrench, a director of Stevenson & Howell, Ltd., London, S.E.1, aged seventy-three. Sir Charles was the son of the late Mr. Arthur Charles Wrench and Marion Howell. He joined the company in 1893 and became a director in 1917; his retirement was intended at the end of 1948. I was president of the Confectionery and A lied Trades Sports Association, 1937-3 His interest in boys' clubs (he was pre dent of the London Federation of Bo Clubs) was of long standing. In 1910, manager at the Repton Boys' Club, Bet nal Green, he was asked to take over t honorary secretaryship of the London Fe eration of Working Boys' Clubs, the then ti of the Federation which comprised sor forty clubs. When, after thirty-five yea he gave up the secretaryship on his electi as president, there were nearly 300 clu serving every part of London and much Middlesex. Sir Charles, who was knight in 1935, was largely responsible for d veloping to its present high standard t long series of competitions in sports a pastimes of which the boxing competitio are perhaps the best known. Of these acted as M.C. since their inception. A c league writes:—"Shy by dispositio Charles Wrench had a dry sense of humo which was the delight of his friends. H maintained his enthusiasms, and those w knew him were only formally surprised hear that in 1935 he had taken out a pilo licence; he flew a Moth until the ou break of war. He was a justice of the peac a member of the Marylebone Cricket Clu of the Royal St. George's Golf Club, and the National Liberal Club. By his dea the cause of voluntary social service (a of London working boys in particular) su fers a grievous blow."

WILLS

MR. T. EMETT, M.P.S., 40 Weymouth Roa Blackpool, left £1,320 (£1,266 net).

MR. H. JEWELL, retired pharmacist, 54 We wood Road, Southampton, left £15,179 (£15,1 net).

MR. FREDERICK AVERY PARKIN, Ph.C., Crofte Cottage, Vane Hill Road, Torquay, formerly 47 Market Place, Doncaster (late of Howarth a Parkin), left £2,116 (£2,011 net).

MR. J. A. LUPTON, M.P.S., 22 Greenclif Drive, Clifton, York, and of Lupton & Son, t Bootham Pharmacy, York, left £6,601 (£6,5 net).

MR. H. G. HOPKINS, M.P.S., 195 Mortla Road, Kew Gardens, Surrey, a London represent tive of Thomas Kerfoot & Co., Ltd., and fo merly representative of Gentosan, Ltd., left £1,9 (£1,896 net).

MR. J. P. LILLIS, M.P.S., 155 Carshalton Roa Sutton, Surrey, superintendent director of He pells (1932), Ltd., and formerly on the staff Timothy Whites & Taylors, Ltd., left £4,4 (£3,497 net).

COMING EVENTS

Monday. October 11

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall Baptist Church, College Road, Harrow, at 7.30 p.m., Dr. T. F. Macrae on "Some Recent Advances in Nutrition."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Film show by Imperial Chemical Industries, Ltd.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Red Cross Rooms, The Commonhall, Hackins Hey, at 7 p.m. "President's night."

Tuesday, October 12

PRESTON BRANCH, PHARMACEUTICAL SOCIETY, Bull and Royal Hotel, Church Street, Preston, at 7.30 p.m. Members' "Grouse Night."

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Midland Hotel, Bradford, at 7.30 p.m. Address by Mr. A. L. Bacharach, M.A., F.R.I.C.

REIGATE AND REDHILL PHARMACISTS' ASSOCIATION, Castle Hotel, Reigate, at 7.30 p.m. Mr. J. T. Marsh, M.P.S., on "The Scope of Research in Pharmaceuticals."

NORTH LONDON PHARMACISTS' ASSOCIATION, Beales' Restaurant, Holloway Road, London, N.7, at 7.45 p.m. Mr. T. C. Denston, B.Pharm., Ph.C., (Editor, British Pharmaceutical Codex) on "The British Pharmacopœia, 1948."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Medico-Chirurgical Society, 64 St. James' Street, Nottingham, at 7.15 p.m. Miss G. M. Watson, B.Pharm., on "The New B.P."

WOLVERHAMPTON BRANCH OF THE PHARMACEUTICAL SOCIETY, Povey's Restaurant, Wolverhampton, at 7.30 p.m. Mr. H. M. Hirst (a member of the Society's Council) on "The Future Trend of Retail Pharmacy."

Wednesday, October 13

ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS, Grosvenor House, Park Lane, London, W.1, at 7 p.m. Annual dinner.

BIRMINGHAM PHARMACISTS' ASSOCIATION, Botanical Gardens, Edgbaston, at 8 p.m. Dance.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY. Visit to Glaxo Laboratories, Ltd., Greenford (details from Mr. Stanley J. Hamer, 172 Upper Elmers End Road, Beckenham, Kent).

Thursday, October 14

NORTH-WEST MIDDLESEX BRANCH, SOCIALIST MEDICAL ASSOCIATION, Town Hall, Wembley, at 7.30 p.m. Dr. E. H. Capel on "Industrial Health Service."

CHESTER BRANCH, PHARMACEUTICAL SOCIETY, Queen Hotel, Chester, at 8 p.m. Mr. A. W. Austin, Ph.C., speaking on the Branch Representatives' meeting held at Brighton on September 2.

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Lysbeth Hall, Soho Square, London, W.1, at 7 p.m. Reunion supper.

LONDON SECTION, CHEMICAL SOCIETY, BURLINGTON HOUSE, Piccadilly, London, W.1, at 7 p.m. Papers on "The Constitution of Conessine" and "Aspergillic Acid."

Friday, October 15

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Professor H. Berry on "The Sterile Preparations of the B.P., 1948."

LONDON AND SOUTH-EASTERN COUNTIES SECTION, ROYAL INSTITUTE OF CHEMISTRY, Burlington House, London, W.1, at 6 p.m. Professor H. B. Nisbet, D.Sc., F.R.I.C., on "Anæsthetics."

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, is holding its semi-jubilee dinner at Marlborough House, Glasgow, on October 27. Tickets from Mr. Andrew Officer, 440 St. Vincent Street, Glasgow, C.3.

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION is holding its annual dinner and dance at the Berkeley Rooms, Zeeta House, Putney, London, S.W.15, on October 20. Tickets from Mr. G. Murgatroyd, 3 Shelgate Road, Battersea, London, S.W.11.

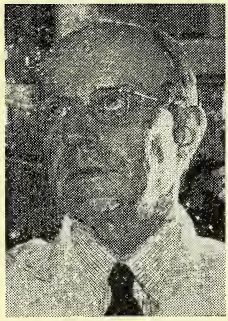
WOLVERHAMPTON BRANCH OF THE PHARMACEUTICAL SOCIETY, is holding a buffet dance at the Queen Mary Ballroom, Dudley Zoo, on Thursday, October 21. Tickets (price 17s. 6d. each or £1 including coach fare) from Mr. J. Foster Taylor, Showell Circus, Wolverhampton.

MAYO PHARMACEUTICAL CHEMISTS' ASSOCIATION is holding its second annual dinner dance at Ashford Castle Hotel, Cong, co. Mayo, on Wednesday, November 3. Tickets (price £1 2s. 6d. each) from Mr. C. M. Ward, M.P.S.I., The Pharmacy, Crossmolina.

PERSONALITIES

MR. CHARLES REESON DEW, who has been senior representative of Pond's Extract Co., Ltd., for thirty-nine years, retired on September 30. A dinner in his honour was given in London, recently, at which he was presented with a cheque.

DR. B. M. DUGGAR (portrait below), who is credited with the discovery of aureomycin (see p. 467), is a microbiologist at the Pearl River, U.S.A., laboratories of the Lederle Laboratories Division, American Cyanamid Co.



DR. SAMUEL BEST (president of Potter Drug & Chemical Corporation, Boston, Massachusetts, U.S.A.) paid a short business visit to Britain, recently, in the course of a tour of subsidiary organisations in the British Commonwealth.

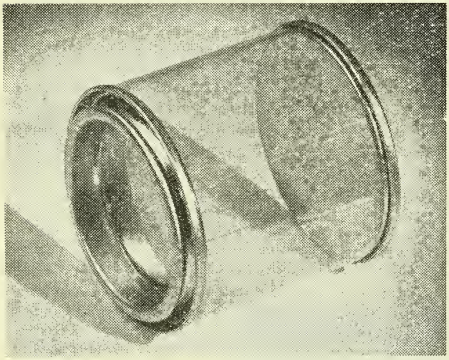
VISITORS present at the meeting of the Pharmaceutical Society's Council on October 6 were MR. G. H. WILLIAMS (vice-president of the Pharmaceutical Society of Victoria, Australia), MR. J. VON FISENNE (vice-chairman of the German Pharmaceutical Society, and chairman of the Chamber of Pharmacists, Hamburg), and DR. E. UNNA (secretary of the German Pharmaceutical Society, and chairman of the Society for the History of Pharmacy).

TRADE NOTES

Price Reduction. — Menley & James, Ltd., 119 Coldharbour Lane, London, S.E.5, announce a reduction in price of Benzedrine inhalers as from October 1.

At Nursing Exhibition. — Wright, Layman & Umney, Ltd., announce that they are exhibiting Wright's coal-tar soap and specialities at the Nursing Exhibition, Seymour Hall, London, W.1, from October 18 to 22.

Transparent Drum. — Percenta, Ltd., 130 Tooley Street, London, S.E.1, exhibited at the Chemists' Exhibition recently a combination metal and plastic container.



The walls are transparent, but the top and bottom are of tinplate or aluminium for strength. The container is at present available in two sizes: $3\frac{1}{2}$ x $4\frac{1}{2}$ in. and $2\frac{1}{4}$ x $2\frac{1}{4}$ in.

Now Tax-free. — Milner & Coke, Ltd., John Penn Street, Lewisham, London, S.E.13, announce that their seidlitz powders, which are available in ordinary, extra and double strengths, are now free of purchase tax.

Distribution Change. — Clinical Products, Ltd., state that since October 1, Moore Medicinal Products, Ltd., Aberdeen and London, have been the sole distributors in Great Britain and Northern Ireland of all products of the company.

A New Inhaler.—Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs, have introduced a pocket inhaler as a convenient method of applying Vapex inhalant to the nostrils. The inhaler may be recharged with Vapex when necessary.

A Leader in the Trade.—MacAndrews & Forbes, Ltd., point out that their claim is to be the largest suppliers of liquorice (n stick liquorice) in the country. The addre of the company is 2 Caxton Street, Londo S.W.1, and not as previously stated.

Add One Penny.—British Chemicals Biologicals, Ltd., Loughborough, Leics, a chemists to add one penny to the pri given in their announcement on anoth page for 1/12 doz. small size Genaspr The advertisement was already printe before the alteration was notified

Separate Sales Organisation. — G. Kent & Sons, Ltd., 24 Old Bond Stree London, W.1, announce that, under change of policy, which came into oper tion on October 1, all brushware and oth items carrying the Titterton trade ma are being sold and invoiced by a separat sales organisation for Titterton & Howar Ltd., at that address.

Improved Supply Position.—W. Stever & Co., 78 Upper Richmond Road, Londo S.W.15, state that stocks are now adequa to meet all demands for the Radiol Co. human and veterinary products. An a vertising scheme for Radian-B aspiri spirit liniment is being launched th autumn. The company's Midland distr butors are John Knox & Co., Ltd., Kin Street, Fenton, Stoke-on-Trent, Staffs.

Available Shortly. — Gala of Londo Ltd., 48 Burlington Arcade, Piccadill London, W.1, are shortly introducing as " new lipstick technique " a product Li Line, which is stated to be slimmer tha any previous lipstick of the slender, penci like type that has been popular in Americ for some time past. The claim is also ma that for the first time users may repla one colour with another by means of series of interchangeable refills. Presenta tion boxes containing Lip Line cases an twelve Lip Line colours will also be avai able.

Window Display Competitions. — National and regional window displa competitions open to stockists of Goy cosmetics and perfumes are being organ ised by the manufacturers Goya, Ltd 161 New Bond Street, London, W.1, Oct ber 25 to November 6. The prizes includ a week-end in Paris for two persons (first class travelling and hotel expenses pai and 15,000 francs spending money—o £65) and cash prizes of thirty guineas twenty guineas and five each of fifteen ten, five and two guineas. Entries are be

ing judged by a panel of five independent persons. Details are given in the advertising pages of this issue and entry forms may be obtained on application to the company.

Change of Potency.—Evans Medical Supplies, Ltd., Liverpool and London, are now issuing a lamb dysentery serum of increased potency, fully effective in cases where their mixed lamb dysentery serum and pulpy kidney serum was formerly preferred. The latter product is being withdrawn from October 18. Owing to increased production costs during the past two years, the prices of lamb dysentery serum (Evans) have had to be increased.

New Products. — The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have introduced Estigyn ethinyl œstradiol, B.D.H., an orally active œstrogen. They also announce that new prices for tablets of diphenan, B.D.H., are now in operation. — Roussel Laboratories, Ltd., 95 Great Portland Street, London, W.1, launched on October 1 two new pharmaceutical specialities. The first, Ethin-Oestryl, is the ethinyl derivative of naturally occurring follicular hormone; it is available in bottles of twenty-five and 100 scored tablets, each containing 0.05-mgm. The second product is Sterogyl chocolate dragees, each containing 50,000 international units of vitamin D_2 (calciferol). Sterogyl is available in bottles of twenty-five, 100 and 1,000 dragees.

Home Cold Permanent Waving.—Lever Brothers & Unilever, Ltd., London, have taken over the distribution of Pin-Up cold

permanent-waving preparation, which has now been on the market for two years. From October 1, the preparation will appear in new packs and made to a new formula that incorporates "radical improvements." Standard and "salon" outfits will be available. The former contains waving and finishing lotions, end tissues, and flexible curlers; the "salon" type has similar contents but a plastic curler replaces the flexible curler of the other set. A refill outfit will also be available.

Glaxo Items.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce the reintroduction of two standard parcels that were withdrawn during the war period. Minadex parcel No. 2 contains one doz. 12-oz. bottles. Glucodin parcel No. 12 contains one doz. 3-lb. tins. Parcel orders should be sent to Greenford, quoting wholesaler's name for invoicing. Both parcels provide pharmacists with an opportunity to secure a profit of 33⅓ per cent. on the selling price; the Glucodin parcels may be subject to allocation, since raw material supplies are not unlimited. Glucodin should continue to be reserved to meet medical prescriptions. The company has also introduced a 50-cc. ampoule of Pyelosil 70 per cent. The product is a 70 per cent. solution of diodone, and the new size is intended to meet the needs of radiologists in cardio-angiography. Colloidal calcium with Ostelin is now issued free of purchase tax.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Leyland & Birmingham Rubber Co., Ltd.*, Pharmal moulded hot water bottle, 50s. doz., purchase tax 33⅓ per cent., inclusive retail price 7s. 8d.

Additions to List (Part 2).—*Mennen Preparations (Agents:—Fassett & Johnson, Ltd.)*, Mennen baby powder, 9s. 6d. doz. (less 5 per cent. on 3 doz., carriage paid), tax 33⅓ per cent., i.r.p. 1s. 5d.

Brand & Co., Ltd., Tomato and barley baby-food in cans, 5s. 8½d. doz., 7½d. (exempt).

BUSINESS CHANGES

Mr. David M. Davidson, M.P.S., has acquired the pharmacy at Kirn, Argylls, formerly carried on by Mr. J. G. Taylor, M.P.S.

National Co-operative Chemists, Ltd., 1 Balloon Street, Manchester, have purchased the business of J. Rymer Young, Ltd., 40 Sankey Street, Warrington.

S. Maw, Son & Sons, Ltd., Barnet, have appointed Mr. Eric C. Lampard, M.P.S., representative for North London in succession to Mr. Charles F. Mote, who has retired after forty-eight years with the company. Mr. Mote previously represented the company in Yorkshire for more than thirty years.

TESTING SCHEME FOR DRUGS AND APPLIANCE

The Minister of Health has sent to Executive Councils details of a model scheme for the testing of drugs and appliances under Regulation 26 of the National Health Service (General Medical and Pharmaceutical Services) Regulations, 1948. The scheme was prepared after consultation with the National Pharmaceutical Union and the Association of Executive Councils. It is proposed that England and Wales should be divided into six divisions in each of which an analyst is to work under contract with the Executive Councils in the division, and the Minister is now considering the appointment of suitable analysts. All tests on appliances are to be made by the Testing House of the Manchester Chamber of Commerce which has special facilities and experience for such work. The number of tests taken in each area is intended to be proportionate, so far as possible, to the number of chemists' shops. Executive Councils are asked to submit to the Minister by October 1 their local testing schemes based on the model.

Under the model scheme, the clerk of the Council is, subject to the general direction of the chairman of the Pharmaceutical Service Committee, or in his absence the deputy chairman, from time to time, to select the chemists who are to be subject to tests, and the prescriptions to be used. If representations are received from the Local Pharmaceutical Committee that a particular prescription which has been, or is proposed to be, used for the purpose is unsuitable for testing purposes, the matter is to be referred to the Minister.

Testing Procedure

When a test is to be carried out, the clerk is to arrange for an official prescription to be written in duplicate and to be signed by a practitioner on the Council's medical list, and the practitioner is not to be informed of the name of the chemist to whom the prescription is to be presented. The prescription is to be presented by an agent of the Council who must be authorised in writing. When the prescription has been dispensed, the agent must inform the chemist that the drugs or appliances ordered on the prescription form are required for the purposes of testing and must, if requested, produce his written authorisation.

Drugs dispensed must be divided by the chemist, in the presence of the agent, into three approximately equal parts, suital additional containers for the purpose bei supplied by, or at the cost of, the age For liquids, before the division is mac the agent must mark on the original cc tainer the height to which the conte reach. For bulk powders, ointments a similar preparations, the chemist, befc the division is made, must weigh the ori nal container and contents in the presen of the agent, who must mark on the cc tainer the total weight, in grains, so asc tained. For tablets, pills, capsules, cach and similar preparations, the chemist mu before the division is made, count the ta lets or other contents in the presence the agent, who must mark the number the original container. The agent mu seal all containers with the Council's se in the presence of the chemist, who, if so desires, may affix his own seal in adc tion. Appliances are not to be divide but must be securely packed and sealed the agent in the presence of the chemi who may similarly affix his own seal.

What the Agent Must Do

The agent, before leaving the premis must mark the prescription form and t duplicate with an identification numb and the chemist must stamp the prescri tion form (but not the duplicate) with h name and address. The duplicate is to given to the agent and the original r tained by the chemist until he is inform by the Council that he may forward it the Pricing Office for pricing.

All containers of drugs must be mark by the agent, before he leaves the pr mises, with the same identification nur ber as that affixed to the prescription. Tl original container must immediately forwarded to the analyst together with tl duplicate copy of the prescription. Tl second container is to be left with the ch mist, who must give a receipt recordir the identification number affixed to it. Tl third container must be kept under lo and key in the Council's offices in case should be required for submission to referee (see below). If the third contain is not forwarded to a referee, it must n be used by the Council for any purpo without the consent of the chemist. Tl sealed parcel containing an applian must be similarly marked with the appr priate identification number and forwarde forthwith to the Testing House.

The certificate of analysis given by a

nalyst or by the Testing House is to be considered by the chairman (or deputy chairman) of the Pharmaceutical Service Committee, and by one of the members of that Committee who is a registered pharmacist. If it appears to them that no further action is warranted the chemist must be informed at once that he may forward the prescription to the Pricing Bureau for pricing. If it appears to them that further action is warranted, the matter is to stand referred to the Pharmaceutical Service Committee. The chemist must at once be informed accordingly and supplied with a copy of the certificate. The Pharmaceutical Service Committee must investigate the matter as if a complaint had been made against the chemist in respect of an alleged failure to comply with his terms of service under paragraph (2) of Regulation 4 of the National Health Service (Service Committees and Tribunal Regulations), 1948.

Chemist's Independent Analysis

Before an investigation takes place on a certificate of analysis of drugs the chemist must be informed in writing that it is open to him, by a specified date, to forward to an analyst selected by himself the container retained by him. He must also be informed of the form of analyst's certificate required. The chemist must within twenty-eight days, or such longer period as the Council may allow, of the date on which the container was sent to the analyst, submit the analyst's certificate to the Council or notify them that he does not propose to do so. The Council is not to be liable for any expenditure incurred by the chemist in obtaining a second analysis, if he should decide that he wishes to have that carried out.

If the chemist, from the results of his independent analysis, disputes the accuracy of the analysis made by the analyst under the scheme, the third container must be sent for examination and analysis to a referee appointed by the Minister after consultation with the Central National Health Service (Chemist Contractors) Committee. The referee is to be furnished with copies of the certificates of analysis made by the analysts who examined the first and second containers, and must submit a report to the Executive Council in such a form as he thinks fit.

A supplement to the model scheme specifies the forms to be used for certificates of analysis prepared by analysts under the scheme.

A NEW ANTIBIOTIC

AUREOMYCIN hydrochloride, a yellow crystalline antibiotic obtained from a strain of *Streptomyces aurofaciens*, has been shown by Bryer and others ("Journal of the American Medical Association," September 11, p. 117) to have bacteriostatic and bactericidal activity against numerous Gram-positive and Gram-negative organisms, including beta hæmolytic streptococcic strains, *Streptococcus fæcalis* strains, *Diplococcus pneumoniæ* types I, II and III, *Bacillus coli aerogenus*, and *Klebsiella pneumoniæ*. The L.D.50 in mice was 50-100 mgm. per kilo by intravenous and 3-4,000 mgm. by subcutaneous injection.

Repeated large doses were tolerated in rats and dogs with "moderate" local reaction and some loss of weight. Penicillin provided slightly better protection against infections by Gram-positive bacteria, while polymyxin and streptomycin were superior against infections of *K. pneumoniæ*. Five patients suffering from Rocky Mountain spotted fever, two from *coli aerogenes* and *S.fæcalis* infection of the urinary tract, and one with brucellosis, were treated with the drug and showed favourable initial responses; most of them became normal in body temperature and free of symptoms within twelve to seventy-two hours. The drug was administered orally (10-60 mgm. per kilo of body weight daily), and intramuscularly. A daily dose of 3 mgm. per kilo of body weight, divided into four doses by the intramuscular route, was tolerated.

"You can take out sun tan oil now, and put back the camphorated."
Cartoon by Gilbert Wilkinson of the "Daily Herald."

GUIDE TO NEW MEDICAMENTS

TABELLÆ SEDATIVÆ

MANUFACTURER: T. & H. Smith, Ltd., 32 Virginia Street, Glasgow, C.1.

DESCRIPTION AND FORMULA: Compressed tablets containing:

Phenobarbitone	$\frac{1}{2}$ gr.
Codeine (as phosphate)	$\frac{1}{6}$ gr.

INDICATIONS: Insomnia, neuralgia, painful cough, hysteria, pruritis, etc.

HOW SUPPLIED: Containers of 100 tablets.

MANDAMINE

MANUFACTURER: Menley & James, Ltd., 123 Coldharbour Lane, London, S.E.5.

DESCRIPTION: Methenamine mandelate.

INDICATIONS: Certain infections of the urinary tract, including pyelitis of pregnancy and urinary infections of children.

DOSAGE: Adults: Three or four tablets (see below) thrice daily. Children in proportion.

HOW SUPPLIED: Enteric-coated tablets each containing 0.25 gm. ($3\frac{3}{4}$ gr.) supplied in bottles of sixty, 500 or 1,000.

ETHINYL-ŒSTRADIOL (Roussel)

MANUFACTURER: Roussel Laboratories, Ltd., 95 Great Portland Street, London, W.1.

DESCRIPTION: Ethinyl derivative of the follicular hormone αœstradiol.

INDICATIONS: Menopausal disorders, ovarian insufficiencies, prostatic carcinoma, etc.

DOSAGE: For menopausal disorders and ovarian insufficiencies $\frac{1}{4}$ to 1 tablet daily.

HOW SUPPLIED: Scored tablets containing 0.05 mgm. ethinyl-œstradiol (Ethin-Oestryl) in bottles of twenty-five or 100.

NOTES: The compound, administered orally, is considered to be twenty times more active than stilbœstrol and 100 times more active than hexœstrol, weight for weight.

NEODRENAL

MANUFACTURER: Savory & Moore, Ltd., 60 Welbeck Street, London, W.1.

DESCRIPTION: Isopropyl adrenaline.

INDICATIONS: In the symptomatic relief of bronchial asthma; also in spastic bronchitis, persistent asthmatic state without typical attacks, and status asthmaticus.

DOSAGE: (a) $\frac{1}{2}$ to $1\frac{1}{2}$ tablets (see below) sublingually thrice daily, gradually reducing to $\frac{1}{2}$ tablet daily; (b) three to four puffs of a spray (see below) into the open mouth.

HOW SUPPLIED: (a) Scored sublingual tablets each containing 20 mgm. of isopropyl adrenaline, in tubes of twenty-five and bottles of 250; (b) 1 per cent. spray solution in bottles of ten and 100 mils.

ETHIODAN

MANUFACTURER: The British Drug Houses, Ltd., Graham Street, City Road, London, N.1.

DESCRIPTON: An *x*-ray contrast medium for myelography consisting of a mixture of isomeric esters, of which the principal constituent is ethyl-*p*-iodophenylundecoate, $I.C_6H_4.\ CH\ (CH_3).\ (CH_2)_8\ COOC_2H_5$.

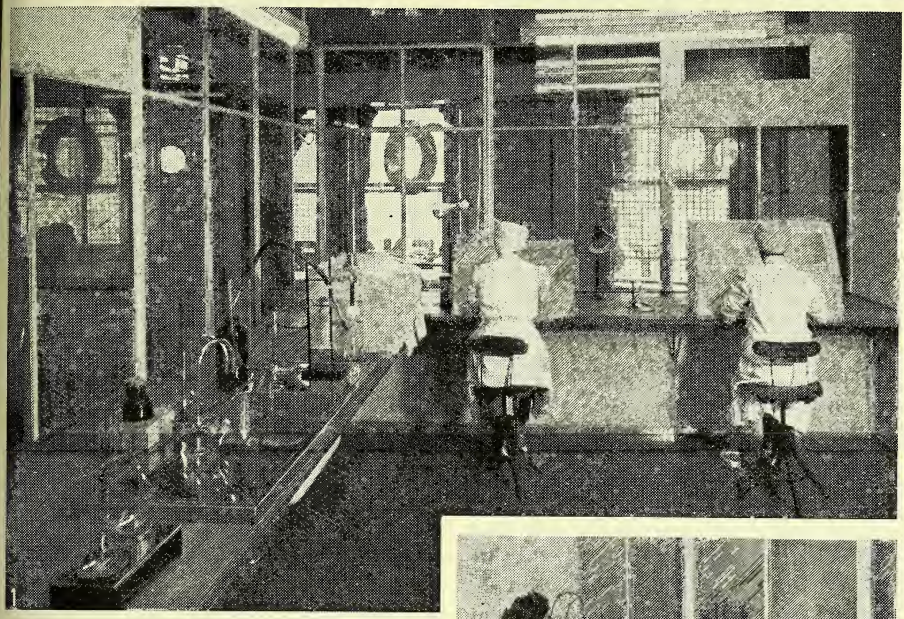
INDICATIONS: For radiological diagnosis of conditions in which obstructions in the cerebro-spinal canal or compression of the canal are suspected.

DOSAGE: Normally 3 mils.

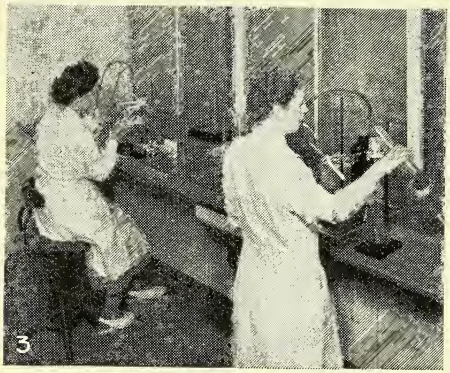
HOW SUPPLIED: Boxes of three 3-mil ampoules.

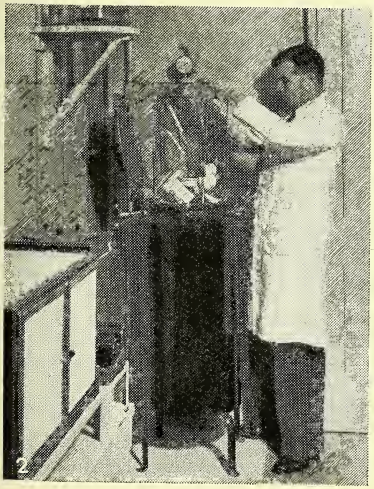
NOTES: The preparation has a greater shadow density than iodised oil.

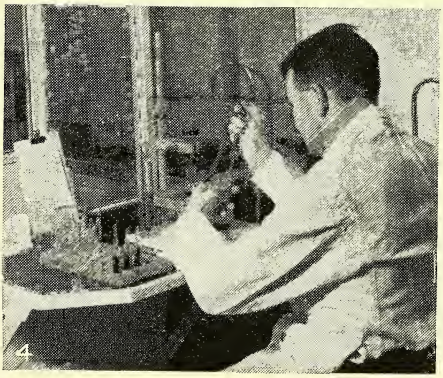
AN ASEPTIC DISPENSARY AT PICCADILLY CIRCUS



To serve branches in the London, Home counties and South coast areas, Boots, Ltd., have established at their 48 Regent Street (Piccadilly Circus) branch an aseptic dispensary. The dispensary is equipped for prompt preparation of penicillin injections and other items demanding sterile technique. 1. General view of the department. 2. Charging an autoclave. 3. Bench work in progress. 4. Filling ampoules.







BERZELIUS: 1779-1848

One hundred years ago Jöns Jakob Berzelius, a distinguished Swedish chemist, died in his native country, and recently in Stockholm a gathering was called of scientists from many countries (including Sir Ian Heilbron, and Sir Harold Hartley, from Great Britain) to pay tribute to the memory of that great worker.

Notable Achievements

Berzelius, born at East Gothland, Sweden in 1779, the son of a clergyman (who died while Jöns was very young) lived to devote his whole energies to the study of chemistry. Among his most notable achievements Berzelius made many accurate determinations of combining weights, improved the methods of chemical analysis, discovered cerium, selenium, and thorium, studied what he named "catalytic action" and "isomerism," developed an electrical theory of chemical reaction, elaborated the system of chemical symbols used today, and a table of atomic weights almost identical with that in use now. For his work Berzelius received many honours including, in 1835 (the year of his marriage) the award of a barony.

In his early days Berzelius planned to follow the profession of his father, grandfather, and great-grandfather as a clergyman, but partly through the encouragement of his stepfather (Anders Ekmarck, a German pastor) to study natural history he later decided to take up medicine. He commenced chemical research with his half-brother in 1798, soon after passing his first medical examination, and prepared "several bottles of oxygen in which iron wires were burnt amid general gratification" while making fuming nitric acid. The following year he commenced the anatomy part of his syllabus, but chemistry was his recreation. He received little encouragement in practising chemistry, however, his uncle, David Berzelius, an apothecary, for example, refusing him admission, during his spare hours, to the shop. Later, however, Berzelius went to the establishment of an apothecary named Wessel in Vadstena. "In his pharmacy" Berzelius wrote in his autobiographical notes, "there was little to do. But there was an Italian who blew glass and made barometers, a good old man named Josua Vaccaro. With him I associated myself and learned to blow glass with a burner as well as to make barometers and thermometers." Later, he examined chemically water from the medicinal springs of Medevi and Loka, so augmenting his income. After encountering difficulties connected with his own poverty, and petty formalities about the possible need for taking his pharmaceutical examination before qualifying medically, he was awarded his doctor's certificate in 1801. He experimented in Stockholm with the medical effects of the electric pile, and also discovered cerium, but found life in that city "somewhat solitary." While in Stockholm he associated with a friend named Werner in a mineral water business, and later in an attempt to establish a vinegar factory. The attempt ended in bankruptcy and lost Berzelius money.

About 1807, the structure in which Berzelius was to do his major work began to form, for he was appointed professor at the School of Surgery, Stockholm, and was given a grant which enabled him to carry on pharmaceutical and chemical work. He shared rooms with his assistant and fitted up a kitchen as his laboratory. Berzelius prepared text-books on chemistry and on physiological chemistry (which was extended to five volumes, and translated into French and German). While working on the volumes his attention was attracted to Richter's researches on the reciprocal decomposition of neutral salts, and the resulting neutrality of the products; and this proved to be the starting point of research on chemical proportions to which the greater part of his working life was devoted.

Visit to England

In 1808, he served as president of the Swedish Academy of Sciences, and during the years 1811-18 increased his income by serving as a member of a committee on the production of saltpetre. During this time he visited England and saw among other scientists Davy (who worked out a theory of chemical combination differing in detail from Berzelius'). The luxury in which Davy lived impressed Berzelius "unfavourably."

On his return to Sweden, Berzelius was appointed director of a new Academy of Agriculture. He had developed great skill in the use of the blowpipe in the analysis of ores, and wrote a treatise on chemical mineralogy. Later, on visiting Goethe, and examining his collection of minerals, he had to instruct the poet in the use of the blowpipe.

In 1816 he joined reluctantly in running a chemical works at Cripshelm. His

examination of the manufacture of sulphuric acid, however, resulted in the discovery of selenium. In 1819 he was elected secretary, Swedish Academy of Sciences.

Berzelius taught many distinguished students in his laboratory, among them being Wöhler. A picture of the laboratory can be obtained from Wöhler's writings:

"I stood before Berzelius's door and rang the bell," Wöhler wrote. "The door was opened by a man of distinguished appearance, neatly clad, and in the prime of life. It was Berzelius himself. He welcomed me most cordially . . . I followed him into his laboratory . . . On the very next day I began working. For my personal use I was given a platinum crucible, a balance with weights, and a wash-bottle. Before all, I was expected to provide myself with a blowpipe, to the use of which Berzelius attached great importance. . . . The laboratory comprised two ordinary rooms fitted in the simplest way; there were no furnaces or ventilating hoods; no service of water or gas. In one room stood two common long tables, made of deal; Berzelius worked at one of these, I at the other. On the walls there were some cupboards with the reagents; in the middle stood the mercury-trough and the table blowpipe, the latter under an oilskin hood communicating with a flue. Besides this, there was the washing-up place, consisting of a stoneware cistern with a tap, standing over a tub. Here the severe Anna, Berzelius's cook, used to clean the apparatus every day. The other room housed the balances and some cupboards containing instruments and apparatus; in an adjoining small workshop there was a lathe. Close by, in the kitchen where Anna cooked the meals, stood a small furnace, seldom used, and a sand-bath, always kept hot."

The Better Term

Berzelius was particularly interested in the study of cyanides and cyanates, which had significance in the study of the nature of chlorine, a substance which was becoming generally recognised as an element, and on which Davy also worked. Wöhler relates that one day Anna, who was cleaning a vessel at a tub remarked that it smelt strongly of oxymuriatic acid. Berzelius who had opposed the new theory about the substance corrected her in words that have since become historic: "Hark thou, Anna, thou mayest now speak no more of oxymuriatic acid, but must say chlorine: that is better." In 1830 Berzelius became convinced that certain substances such as ammonium cyanate and urea (the first of which Wöhler had converted into the second) possessed the same elements in the same proportion, and he coined the word "isomerism" for the new phenomenon.

Berzelius's main characteristics (Partington: "A Short History of Chemistry") were thoroughness, perseverance, exactness in observation, clearness in description, capacity for systematisation, and a conservative attitude which caused him to cling to what he thought well established with great tenacity. Berzelius concentrated all his thoughts on his chemical studies and consequently his conversation was limited "much to his own subjects." In any career, however, his immense capacity for work, and great activity of mind would have made him conspicuous.

FIFTY YEARS AGO

Opening of the School of Pharmacy

(*From the C. & D., October* 8, 1898)

THE Council of the Pharmaceutical Society made a brilliant catch when they induced Sir James Crichton Browne to inaugurate this year's educational session. The famous alienist is certainly among the half-dozen most eloquent of our medical scientists, and the address he gave on Monday was a notable display of his power. . . . He points to the possibility of the Minor examination being brought to such a state of perfection as to "impair its utility." Of course he is confident that "the wisdom and caution of the Council of the Pharmaceutical Society" may be relied upon to prevent any risk in pharmacy of the "Stupidity manufactured by examination" which he has observed in other professions. It is pleasant to have that confidence; but it is just as well, all the same, to encourage it. Some of us think that the wisdom and caution of the Council might have been drawn upon to some extent before this. In this connection Sir J. Crichton Browne adds the weight of his authority, and indicates powerful arguments in support of the policy of dividing the qualifying examination which has so often been advocated in these pages.

Poliomyelitis Virus.—Dr. F. Gollan (assistant professor of physiology, University of Minnesota, U.S.A.) claims to have isolated an almost pure virus of poliomyelitis affecting small animals (an "M" strain). The method used is reported to be applicable to all strains.

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VOL. CL OCTOBER 9, 1948 No. 3581

Proposals to Modify New Zealand Health Service

A WARNING given only a few days ago by the Minister of Health (Mr. Aneurin Bevan) that abuses could wreck the National Health Service coincides with the arrival of news from New Zealand (see p. 460) that a number of suggested modifications in the Health Service of that Dominion are to be put before the House of Representatives for debate. While it has to be borne in mind that the two schemes are not identical in method and scope, it is not without value to consider in what respects the New Zealand service, which has been in operation for a longer period than the British, is regarded as requiring modification in order to prevent abuse. A correspondent writes that for some time the scheme has been felt to be out of hand and "in some cases, it has developed almost into a 'racket.'" More and more pressure is being brought to bear by the trade unions to have the benefits extended, and the prospect of an increasing cost to the exchequer is seriously viewed.

The recommendation to establish a general advisory and consultative body to be in direct contact with the Ministry is already an inherent part of the British scheme. Its implementation in the Dominion will have a strengthening effect on the service, provided all groups affected, including pharmacists, are given representation proportionate to their part in the Service. Discipline, another aspect well provided for in Britain, is only now, apparently, being thought of in New Zealand. The proposal to place upon the medical profession itself "a large measure of responsibility for the ethical behaviour of its members" seems on the one hand at variance with the principle of statutory measures just mentioned and on the other to yield no clue as to what action the governing body of the medical profession will be able to take.

From a pharmaceutical standpoint the outstanding recommendations are that "the present formulary issued by the department be revised and extended with a view to its general adoption as a standard of prescribing," and that "the principle of part payment by the patient be adopted in respect of pharmaceutical requirements." So long as the formulary remains a book of standards, well and good, but if the emphasis is to be on "general adoption," with an implied restriction on freedom to prescribe outside the formulary, the step will be one to which both physicians and pharmacists will rightly object—physicians because it will deprive them of the right to order whatever medicines they consider indispensable for their patients, and pharmacists because it will render nugatory much of their knowledge and training and bar the progress of therapeutic discoveries. This possibility has been elaborated by Mr. E. W. Godding (chairman, standards committee, Chemists Federation) who, in an article in the "Lancet" on September 18, gave figures to show that, under the National Health Insurance Act, prescribing of proprietaries was very much less than in private practice. If, under N.H.S., restriction to a formulary were to result in the prescribing of proprietaries being reduced to nil, the research discoveries of manufacturers that have been made in recent years would fail to be succeeded by others, and the initiative in medical research would revert to other countries. We hope these considerations will be taken in account by our New Zealand friends—who are at present making good use of the products of research of their own and of British manufacturers—before they place excessive curbs on the freedom of prescribers. To avoid this undesirable outcome Mr. Godding puts for-

ward the formula that practitioners should be free to prescribe "any proprietary medicine showing a significant therapeutic advantage over existing B.P. preparations," and outlines a system of checks to ensure that significant therapeutic advantage should remain the determining factor.

The principle of part payment is apparently intended to act as a deterrent to patients who needlessly or excessively secure prescriptions from their doctors. Whether the device would achieve that end must seem highly problematical, for either the amount will be set so low as not to offer any obstacle or it must be fixed at a level so high that it will rob the system of its essential principle—"adequate and proper medical services free, or substantially free, of costs."

That is not to say that some way must not be found to check excessive costs—a problem that may in the future become no less acute in this country, if the Minister's words are not heeded, than it already is in New Zealand. In both Antipodes the debates will be followed with close interest.

Lament for the Drugs of Yesteryear

THE new British Pharmacopœia, which came into force on September 1, excluded 144 articles and preparations that had been included in the B.P., 1932, as amended by various Addenda. Some 10 per cent. of the exclusions may be classified as crude drugs of animal and vegetable origin, and with the departed monographs pharmacists, especially those who remember earlier pharmacopœias, lose official touch with a number of old friends.

It will have caused little surprise to many that asafetida is one of the casualties, since its other umbelliferous cousins, the gum resins galbanum and ammoniacum, have already preceded it into the pages of the British Pharmaceutical Codex; the former was in the Pharmacopœia of 1898 and the latter in the B.P., 1914. It would be interesting to assess the extent to which the decline in popularity of asafetida in human medicine is connected with its "intense, penetrating, persistent, alliaceous odour" and "bitter, acrid, alliaceous taste." On the other hand, a further omission, buchu, has no such obj tionable sensory characteristics: its odo recalling peppermint, is, for most peop pleasant; its taste is "strongly aromati The departure of this drug is for seve reasons to be regretted, and would se to be in some measure due to a decli over many years in the prescribing of fre infusions. To an earlier generation, w knew not the pharmaceutically inferi product inf. buchu. conc., the preparati of freshly-prepared infusion of buchu w something of a ritual, and the mixture th had for its vehicle this liquid was pleasi to eye, nose and palate.

Two fruit products, cassia and tam rind, together with the preparation co fection of senna, which includes the among its ingredients, now also leave t B.P., and with them goes something of t "romance of the East," which once pe vaded the study of materia medica. T cathartic drug jalap has long since bee replaced by other laxatives and purgativ for general use. Serpentary, an America Indian remedy introduced into Englis medicine as long ago as 1632, was offici in the London Pharmacopœia of 1650. I crime is that while it has, apparently, littl advantage over valerian as a gener stimulant, it is a "dollar commodity." A other drug used in the American Indian domestic medicine was lobelia. Introduce into European practice about 1830, th drug has declined in popularity and pay the penalty. Urginea (Indian squill) an Indian valerian, which were reintroduce in the Fourth Addendum (October 1941 to the B.P., 1932, when the correspondin European drugs were in short supply, can not, of course, hold their place now tha the latter are again available. Increase hybridisation of cinchona species, wit consequent wide variation in character o the bark, possibly prompted the compiler to omit any monograph on cinchona fro the B.P., 1948. The only surprising thin about the only remaining "botanical" omission—linseed—is, perhaps, that it survived the 1914 B.P. It must be something of an effort for pharmacists now in practice to remember when last they had a prescription of which mucilage of linseed was an ingredient.

COMPETITIVE ANTAGONISM

A New Principle in Pharmacology

By Synergist

IT has long been recognised that certain pairs of drugs are capable of inhibiting each other by reason of their opposite chemical, physiological or pharmacological effects. Acid and antacid, poison and antidote, toxin and antitoxin, are familiar examples of such antagonisms. Adrenaline and histamine act as physiological antagonists and the body uses them as such.[1] The injection of histamine releases adrenaline, and, according to Staub,[2] the injection of adrenaline releases histamine. Barbiturates and picrotoxin are pharmacological antagonists, barbiturates depressing and picrotoxin stimulating the central nervous system. Similarly the mydriatic action of atropine is antagonised by the myopic action of pilocarpine.

In recent years a new type of antagonism —"competitive antagonism" or "competitive inhibition"—has come to light. This new principle bids fair to open up a new chapter in pharmacology and is likely to play an important part in the discovery of new therapeutic agents.

Principle Explained

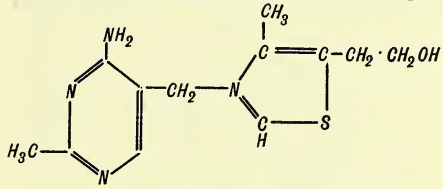
The new concept arose mainly from the studies of Woods[3] on the mode of action (mainly bacteriostatic) of the sulphonamides. He found that the effect of the compounds on susceptible micro-organisms could be neutralised by small concentrations of p-amino benzoic acid (p.a.b.a.), and postu-

Sulphanilamide

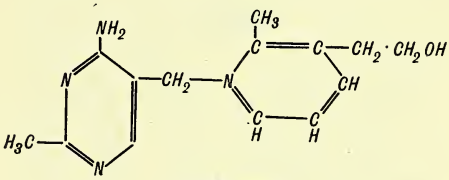
p-Amino benzoic acid

lated that these drugs act by competitive inhibition. The bacteria, it was suggested, accept the sulphonamide (the "competitive inhibitor") in place of the essential metabolite (p.a.b.a.) because of the similarity in chemical structure of the two compounds. The sulphonamide enters into the bacterial enzyme-system, which then becomes blocked and incapable of performing its normal function. Welch[4] pictures the metabolite as a key, so notched and grooved as to fit perfectly the mechanism of a lock, which it operates smoothly and efficiently. The interfering substance, or anti-metabolite, is like an imperfect key which is able to enter the lock but is unable to operate it; also by its position in the lock it interferes with the entrance of the proper key. As Dale[5] pointed out recently, this theory of the action of the sulphonamides can be only part of the story, since other effective bacteriostatic agents, not distantly related to sulphanilamide, are unaffected by the presence of p.a.b.a.

Following Woods' discovery, Fildes[6] suggested that new chemotherapeutic agents might be developed by the preparation of various structural modifications of compounds known to function as essential metabolites, but, as yet, the study of essential-metabolite antagonism has not pro-



Thiamine (aneurine)



Pyrithiamine

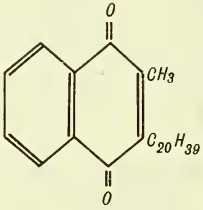
duced any new compounds of outstanding clinical merit. One example of the application of the new theory, however, is worthy of mention. In 1940 Bernheim[7] showed that salicylic acid increased the oxygen consumption and carbon-dioxide production of the tubercle bacillus, whereas the homologous 3- and 4-hydroxybenzoic acids were inactive. It was concluded, therefore, that salicylic acid was oxidised as a metabolite and that similar chemical configurations probably played a part in the metabolism of the bacillus. On the basis of these experiments Lehmann[8], a Swedish worker, experimented with a number of compounds similar to salicylic acid, and discovered in 1946 that *p*-amino salicylic acid in very small quantities prevented the growth of the tubercle bacillus. While

this compound appears to be of some value in the treatment of experimental tuberculosis in animals, there is at present far too little evidence to draw definite conclusions about its value in human tuberculosis (Mitchison)[9].

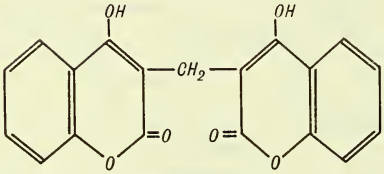
Anti-vitamins

Essential metabolites, which are exogenous (i.e., those obtained by an organism from its environment) are often referred to as "essential growth factors." These include the vitamins, the antagonists of which are the anti-vitamins. One of the first of the anti-vitamins to be prepared was pyrithiamine, which, as the name indicates, antagonises the action of vitamin B_1 (aneurine or thiamine) to which it is very similar in chemical structure.

If pyrithiamine is fed to mice, symptoms of vitamin B_1 deficiency are rapidly produced. They are relieved by increasing



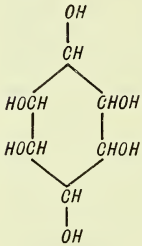
Vitamin K



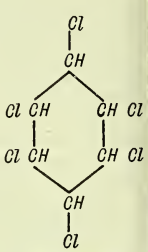
Dicoumarol

the amount of vitamin B_1 in the diet, but, if more pyrithiamine is added, deficiency symptoms again occur. Pyrithiamine, in fact, acts as a competitive antagonist to vitamin B_1. Many other anti-vitamins have now been prepared. An interesting example of a naturally occurring anti-vitamin is dicoumarol, which is used in medicine to decrease the clotting power of the blood. It has only recently been realised that the action of dicoumarol (a principle isolated from spoiled sweet clover), is due to interference with the function of vitamin K. The structural resemblance between the two compounds is well marked (see above).

Yudkin,[10] in an excellent review of the anti-vitamins, gives a number of examples of these competitive antagonists and include the insecticide, Gammexane. There is good reason to believe, this author states, that Gammexane acts as an anti-vitamin, starving insects of inositol so that they die of a vitamin deficiency disease. It is interesting to compare the structure of the two substances.



Inositol



Gammexane

Anti-histamines

The recent introduction of the anti-histamines into medicine, which resulted from study of drug antagonists, is mainly due to the discoveries of Bovet and his colleagues in the Pasteur Institute, who found that certain adrenaline antagonists also acted against histamine. Loew[11] suggests that the term "histamine antagonist" (or anti-histamine drug) should be restricted to drugs that diminish or prevent several of the effects of histamine by a mechanism other than pharmacological. Adrenaline and related substances are not, therefore, classed as anti-histamine drugs, since they antagonise histamine by inducing opposite pharmacological effects. The true anti-histamine drugs which include Benadryl, Anthisan and Antistin, antagonise histamine without eliciting pharmacological responses.

Little, as yet, is known of the method by which potent substances, such as histamine and adrenaline, produce their effects on various cells. The simplest conception of the action of these substances is that they unite with certain specific receptors in the cell or on its surface. The action of histamine may therefore involve two separate processes—a chemical reaction between histamine and its receptor, followed by a biological response. Study of the pharmacology of the anti-histamines suggests that they achieve their effects by combining with receptors that normally would have combined with histamine. They thus appear to act as competitive antagonists blocking up the sites of action of histamine.

The results of quantitative studies of the antagonism are compatible with this view (Wells and others)[12].

The principle of competitive antagonism can now be claimed to be established. Commenting on its significance, Harington[13] states "The full potentialities of the theory of specific inhibition have not yet been realised; there can be little doubt, however, that this biochemical discovery will prove to be one of the most important bases of further advance in chemotherapy and indeed in many other branches of medical research."

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RECENT RESEARCH

Indian Dill Oil.—From an examination of eighty samples of Indian dill oil Hossain and Mukerji ("Indian Pharmacist," July, p. 169) conclude that though the Indian oil may replace oleum anethi, B.P., 1932, for almost every purpose, it is not a true substitute for the official oil. Recommended standards for Indian oil include the following: Appearance—colourless to light yellow, or light brown; specific gravity 0.920-0.950; optical rotation +47° to +60°; refractive index 1.480 to 1.495; carvone content 40-55 per cent.

Insecticides Compared.—Toxicity tests on ten species of insects, using DDT and an analogue of DDT in which the chlorophenyl groups were replaced by chlorothienyl groups, are described by Metcalf ("Science," July 23, p. 84). The thienyl analogue was considerably less potent than DDT except against insects highly resistant to DDT. The analogue appeared to resemble DDT qualitatively in its mode of action, and to affect the same locus in the insect nervous system. The author suggests that the phenyl rings of DDT are not essential in producing the biochemical effects of the DDT molecule.

Histamine in Migraine. — After trials, extending over seven years, on 144 migrainous patients, Macy and Hoston ("Journal of the American Medical Association," July 24, p. 1,110) conclude that histamine has a value as a prophylactic agent against migraine, though it is not a cure. Subcutaneous administration was found more effective than intravenous in a wider variety of cases of migraine, approximately 60 per cent. of the patients receiving the drug subcutaneously showing improvement. A sterile solution of 0.275 mgm. of histamine phosphate (equivalent to 0.1 mgm. of the base) was used for the subcutaneous injection, the initial dose being 1-c.c.

Insulin Molecule. — Butter, and other workers at the S. A. Courtauld Institute of Biochemistry, London ("Nature," September 11, p. 418) found, in the course of recent examinations, two cores to the insulin molecule — one containing glycine, valine, terminal histidine, and ε-lysine, and the other glycine, valine, and histidine. They suggest that removal of water from digestion products of insulin causes loose bonds to be established between the peptide chains, forming an insoluble complex, which is broken by the acids and alkalis.

Sulphonamides Under the Microscope.—The results of a comparative microscopic study into the diagnostic features of six crystalline sulphonamides are given by Keenan ("Journal of the American Pharmaceutical Association, Scientific Edition," May 1948, p. 202). The optical crystallographic properties of sulphanilamide, sulphadiazine, sulphapyridine, sulphathiazole, sulphaguanidine and sulphamerazine are given, with details of microchemical tests and, for most examples, optical crystallographic descriptions of a crystalline complex formed between the sulphonamide concerned and a specific reagent.

Starch Blue.—By employing radioactive iodine Turner ("Science," September 17, p. 302) has shown that the blue coloration produced when starch and iodine are brought together is dependent not on the presence of iodine but on iodine acting catalytically on the starch molecules in the presence of oxygen. Experimentally a measured amount of I^{131} in potassium iodide/iodine solution was added to a measured quantity of starch solution. After allowing contact for three hours the iodine was completely extracted with butyl alcohol. The solvent was then found to contain the radioactive iodine, while no radioactivity was found in the starch blue.

MINISTRY OF HEALTH BULLETIN

THE following abstracts are taken from the twentieth Bulletin to Pharmacists issued by the Ministry of Health.

Sleeplessness

By Macdonald Critchley, M.D., F.R.C.P.

MANY individuals confess themselves to be victims of insomnia; some of these consult their doctors on this account. But it is necessary to be clear what the patient means by the term "insomnia." The habit of sleep is one which varies considerably in its manifestations. Some persons sleep far less than others and are none the worse for that. Age is a factor and the very young seem to sleep for longer hours on end than adults. The elderly and the aged also sleep more, but, unlike children, their sleep is taken more in the form of "snatches." They sleep easily in the daytime, but at night they may wake very early, as well as at intervals during the night.

Inadequate sleep can be considered under three headings: (1) Difficulty in dropping off to sleep; (2) broken sleep; and (3) waking unduly early. Combinations of these may, of course, occur.

The first heading, difficulty in falling asleep, is perhaps the commonest type of insomnia, and the one which is most easily treated. Here one can analyse the predormital symptoms which may at times present themselves while the patient lies in bed awaiting the onset of sleep. Sometimes there are no symptoms—merely a delay of one, two or three hours during which time the patient feels in mental and physical comfort. There is no occasion for the patient to become distressed over this unduly protracted predormitum. No medical treatment is required as a rule, but common sense enjoins that special attention should be paid to the quietude and comfort of the bedroom and the bed.

Much more distressing is the symptom of motor restlessness which may supervene while seeking sleep. Various terms—"asthenia crurum paraesthetica"; "jittery legs"; "fidgety legs"; "Ekbom's syndrome"—have been applied to this symptom of vague bodily discomfort, largely located in the lower limbs, which may develop either in bed, or when the individual is confined into a narrow sitting posture, e.g., in a railway carriage at night, or in a cinema, theatre or church. Less often the feeling is actually of a painful nature, and the possibility of peripheral circulatory inadequacy comes up for investigation. Patients with this symptom of fidgety legs are considerably helped by medicinal treatment, ranging from simple aspirin therapy to preparations of carbachol.

During the protracted predormitum some individuals develop distressing symptoms of a psychological rather than of a physical character. The simplest of these is the ordinary press of ideas which crowd through the victim's mind as he lies in bed. Events of the preceding day and plans for the next day may obtrude themselves with such force as to dispel any previous feelings of tiredness. This type of sleep disorder is indeed a very common occurrence, especially in sensitive and overworked individuals, professional and business men. Distrust of regular barbiturate medication is largely groundless, as demonstrated by twenty-five years' experience of continual treatment of the migrainous and the epileptic with phenobarbitone.

Pneumokoniosis Among British Coal Miners

By S. W. Fisher, B.A., M.D.

WHEN breathing takes place in an atmosphere containing an abnormal quantity of dust a certain amount of this dust is filtered off by the nose. As the air passes down the windpipe and bronchial tubes, much of the remainder settles on them, while some may reach the terminal air-sacs. The bronchial tubes become successively narrower in the process of branching so that only the finest dust, usually below 5 microns in size, reaches the air-sacs of the lung. The bronchial tubes are lined with ciliated epithelium, and the concerted lashing movements of the cilia result in the whole layer acting as an ever-moving conveyor to carry the dust-cells mixed with mucus upwards towards the throat. By "dust-cells" is meant scavenger-cells or "phagocytes"; these ingest the dust which reaches the walls of the air-sacs. The dust-laden cells may either (*a*) return to the bronchial tubes, (*b*) migrate along the supporting fibrous framework of the lung and lymphatic channels, or (*c*) stay in the lobules or air-sacs. In order to avoid dust accumulation in the lung the rate of ridding the lung of dust must be greater than the rate of dust entry. In the ordinary conditions of life this is so; it is only when working conditions expose the individual to abnormal concentrations of dust over long periods that the

rate of elimination falls behind the rate of entry and pneumokoniosis develops.

In support of the theory which assumes that the quality, i.e., the chemical properties and solubility of dust, plays perhaps the most important part, it has been demonstrated by Gardner and others that carborundum powder, which can be fine, hard and sharp, failed experimentally to produce a fibrosis of the lungs, and experience in industry supports the inference that it is not a dangerous dust. On the other hand, it has been shown by King, Briscoe, Denny and others that the dusts which have been proved to produce fibrosis are more soluble than those which do not — amorphous silica and flint being more soluble than such dusts as kaolin, sericite and talc.

Aluminium Therapy

As a result of the work done in Canada and the United States, trials started in October 1946 are being carried out at Geevor Tin Mine in Cornwall on behalf of the Medical Research Council. Metallic aluminium powder is administered in the changing room connected with the mine baths. A cartridge containing the powder is fixed to a compressed air pipe at each of the four corners of the room. The cartridges are then pierced and the powder is blown towards the centre of the room; here its lightness and the movement of men keep most of it in suspension for about an hour. Suspension is further helped by cutting off all through ventilation. This is done twice a day, at the end of each of two shifts. At the end of the day the air is exhausted and renewed.

One disadvantage is that the powder is black, so clothes and lockers become coated with a fine film of the powder and to a lesser extent so do the men who have just washed. The treatment is based on the theory that by intimately coating silica particles with metallic aluminium in fine division, the solution of these particles in the lung will be reduced and their chemical action modified, thus preventing the development of pulmonary fibrosis.

Eye Injuries and Ailments

By Charles Goulden, O.B.E., M.D., F.R.C.S.

It is seldom that one meets with ophthalmic emergencies that have been treated by unskilled and unqualified people; the results of such an interference may be so tragic that few would risk it. Nevertheless, pharmacists are not infrequently approached for advice—the public have great faith in the pharmacist, not only when seeking first-aid for accidents elsewhere in the body, but they often ask him for relief when, for example, a piece of dust or grit has blown into the eye, as often occurs on a railway journey.

The removal of a foreign body lodged under the lid is taught at all first-aid classes, and, in the example mentioned above, it may be done by any one who has been shown the way to carry out the operation. It is necessary to be quite sure that the condition is only that of a foreign body under the lid and that it is not a case of a foreign body lying on the cornea, or perforation of the eye with a portion of the iris protruding from it, when harm may be done by unskilful handling. A method of removal of a foreign body from under the lid which has been practised is extremely dangerous and will cause the removal of a large area of the epithelium of the cornea, with all the possibilities of an infection of the cornea and all the serious consequences of a septic corneal ulcer. The method referred to is the use of the hairs of a small paint brush inserted under the upper lid with the object of sweeping away anything that has been caught there. The wisest plan is to put a drop of a ½ per cent. solution of butethanol into the eye, apply a pad and bandage sufficiently firmly to keep the upper lid at rest, and advise the sufferer to go to a doctor. As an emollient, when the eye is painful, following a superficial injury or burn, it has been the custom to put into the eye a drop of castor oil. It is much safer to use a drop of sterile liquid paraffin, which is an excellent emollient.

The application for any length of time of a pad and that horrible invention, the pink celluloid shield, is not only useless, but causes the retention of perspiration which in turn produces an unhealthy condition of both eyelids and conjunctiva, and may be the beginning of infection. No attempt should be made to remove a foreign body from the surface of the cornea, as is so commonly done, with the corner of a handkerchief or a small piece of blotting paper. Such an attempt always leads to an abrasion of the cornea.

There is a tendency to consider that a lotion should be used for the eyes as a routine. Unless there is some disease, this is a mistake. The use of a lotion tends to make the vessels of the conjunctiva lose tone, so that they become permanently dilated.

MISCELLANEOUS INQUIRIES

Distribution of Samples.—*W. L.*—There are no restrictions on the packaging of samples so long as the container is plainly marked with the manufacturer's name and address, and the name of the product, and bears a statement to the effect that contents are a free test and not for sale.

Tax-free Vitamin Products.—*C. C. B.*—As an outcome of representations made to and accepted by the Customs and Excise authorities, vitamin tablets containing only nutritional amounts of vitamins are now regarded as foods and not medicines. As such they are free of purchase tax.

First Aid Under N.H.S.—*M. McB.*—The legal position of chemists providing first-aid services to customers is unaffected by the National Health Service Act, which makes no mention of the subject. There will, of course, be no reimbursement by the State for any materials used in providing such assistance.

Drug Index.—*E. S.*—Variations in the drug index figure (calculated on the basis of the *C. & D.* Dispensing Price List) for the period January-August have been according to the following list: January, 195; February, 194.6; March, 185.5; April, 195; May, 187; June, 184.6; July, 192; August, 193.

Deodorant Cream.—*D. H.*—Below is given a formula for a deodorant cream made with a vanishing cream base:—

Diglycol stearate	20 gm.
Hexamine	5 gm.
Water	75 gm.

Dissolve the hexamine in 15 mils of the water. Melt separately the diglycol stearate and add to the water when both are at 170°F.

Shampoo Powders.—*L. S.*—Shampoo powders which produce foam may be made with sodium or potassium salts of a sulphated fatty alcohol. Below are two typical formulas:—

I

Sulphated fatty alcohol (in powder)	6 gm.
Perfume	q.s.

II

Sulphated fatty alcohol (in powder)	20 gm.
Anhydrous sodium sulphate	80 gm.
Perfume	q.s.

The foaming effect of these may be made greater by incorporating sodium hexametaphosphate powder.

Pharmacy in Channel Islands.—*A. P. F.*—The profession of "pharmacist or druggist," may not be practised on the Channel Islands without permission from the Royal Court of the particular island. Permission is granted only to persons accepted as chemists and druggists or pharmaceutical chemists by the Pharmaceutical Society of Great Britain, or as pharmaceutical chemists by the Pharmaceutical Society of Ireland. In addition, the Court may require proof of the applicant's good character, and his application has usually to be put forward through a lawyer.

Purchase Tax on Shampoos.—*K.*—Shampoos are chargeable with purchase tax at the rate of 33⅓ per cent. of the wholesale value under Group 32 (b) (ii) of the tax schedule. This charge is regarded as applying to soap substitutes (liquid, solid or paste) which are put up with any implicati by label, literature or in any form of public that they are intended for use as shampo whether or not they are claimed to be "base or concentrates requiring further preparat (e.g., dilution with water) before use as shampo Soap substitutes which are put up with no clai or statements as to use for toilet purposes or whi are put up specifically and exclusively as househ cleansers are not chargeable with tax.

VETERINARY ABSTRACTS

Woody Nightshade Poisonings.—Gre ("Veterinary Record," 1947.II.626) r cords that, of thirteen horses which was called upon to examine because th were "drunk," the three worst case when left alone, staggered from side to si and, when walked, exhibited knuckling the hind fetlocks, and were turned an backed only with difficulty. Pulse, pupil and respiration were normal, and a samp of urine examined was also normal. visit to the pasture revealed that, as th grass had shrivelled during a dry spell, th horses had used the hawthorn hedge as source of greenstuff and had bitten o twigs, probably bearing berries, of wood nightshade (*Solanum dulcamarum*). Th three worst cases were treated with inje tions of carbachol. All thirteen cases r covered within forty-eight hours.

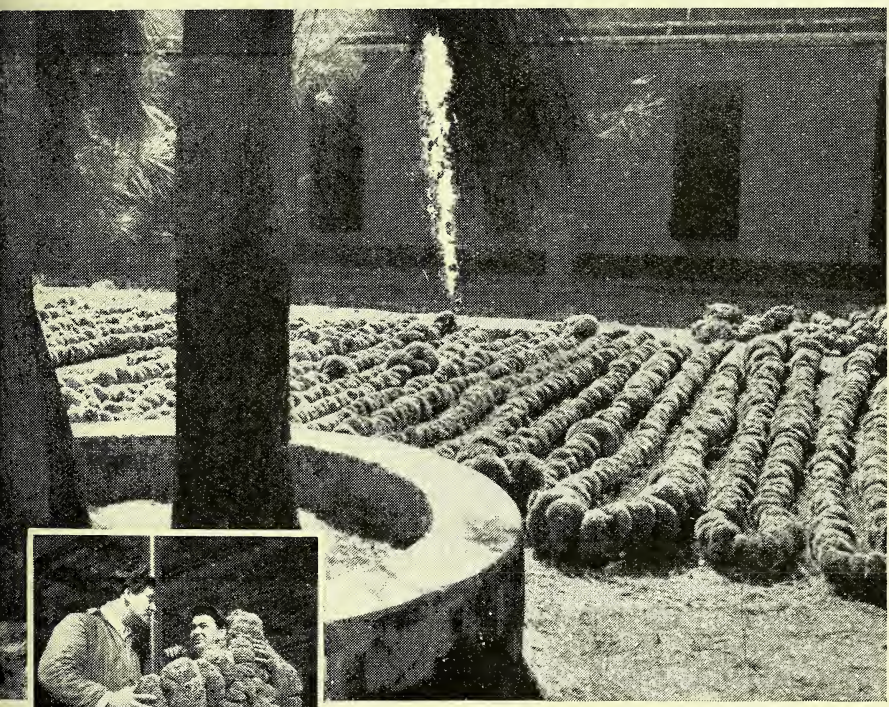
Sulphonamides in Cows.—Maclay an Slavin ("Veterinary Record," 1947.II p. 313) have investigated the absorptio and excretion of certain sulphonamid compounds in dairy cows. Results of twenty two experiments show that after singl doses of 0.15 gm. per kilo body weight Sulphamethazine produced the highes blood concentrations, a peak of approxim ately 10 mgm. per 100 mils of the free dru occurring twelve hours after dosing. Ther was a corresponding milk concentration o 6 mgm. per 100 mils. Sulphamerazine gav a blood concentration peak of 7 mgm. pe 100 mils after fourteen hours with a mil concentration peak of 3 mgm. per 100 mils sulphadiazine a blood concentration peak o 5-6 mgm. and a milk concentration peak o 3 mgm. per 100 mils after 10-12 hours while sulphapyridine produced peak con centrations in the blood and milk of abou 6 mgm. per 100 mils in 10-12 hours Urine concentrations of several hundre mgm. per 100 mils free sulphonamide an "considerably higher" concentrations o total drugs were recorded during the ex cretion period. By trial-and-error method a dosage schedule of the drugs has bee worked out to maintain given blood levels

FLORIDAN SPONGES

A Greek Sponge diver at Tarpon Springs is assisted into his diving outfit.

Spurning the ladder (used only for the return), he prepares to leap overboard.

Now in the water, the diver sinks gradually to the sponge bed for his work.



The sponges are strung on ropes for convenience in handling, and laid out in the sun on the site where, once a week, buyers attend the weekly auctions. Lockers in the background are used for storage. Inset: Divers and crew, being paid on a share basis, make their own appraisal of what the captain of the boat is likely to get for the sponges.

STOCK EXCHANGE PRICES

Quotations are the average for the day stated. New securities are shown in italics.

£1 unit unless otherwise stated	Aug. 31 1948	Sept. 30 1948
	s. d.	s. d.
Allbright & Wilson, ord., 5s. ...	28 3	28 9
Allen & Hanburys, prefd. ord. 7% cum.	31 3	32 6
Amber Chemical, ord., 2s. ...	9 6	9 6
Amber Chemical, 5% cum. pref.	25 0	25 0
Ascotts Pharmacies, ord. stock, 5s.	10 7½	9 4½
Aspro, ord. stock, 5s.	36 3	37 0
Beecham Group, defd., 2s. 6d. ...	19 3	18 1½
Beecham Maclean Holdings 4% red. cum. pref.	21 3	20 7½
Boake, Roberts, ord., 5s. ...	28 9	30 0
Boots (Eastern) "A" pfd. 6% cum.	31 0	31 0
Boots (Northern) "A" pfd. 6% cum.	31 0	31 0
Boots (Western) "A" pfd. ord. (7% non-cum.)	37 3	37 3
Boots Pure Drug, ord., 5s. ...	53 0	52 0
Borax Consold., defd. ord. stock	58 1½	59 4½
British Alkaloids, ord., 1s. ...	6 6	5 6
British Chemicals & Biologicals, 4% cum. red. pref.	22 0	22 0
British Drug Houses, ord., 5s. ...	8 6	9 6
British Emulsifiers, 2s.	1 0	1 0
British Glues & Chemic., ord., 4s.	18 6	20 0
British Industrial Plastics, ord., 2s.	6 9	7 0
British Optical & Prec. Eng., 5%	96%	96%
British Oxygen Co., ord. stock ...	97 6	97 6
British Xylonite Co., ord. stock ...	105 0	105 0
Burt, Boulton & Haywood, ord.	25 7½	25 7½
Bush (W. J.), & Co., ord. ...	85 0	82 6
Camwal, ord.	21 3	21 3
Cooper, McD. & Robertson, ord.	36 3	37 6
Cow, (P.B.) & Co., ord. stock, 4s.	17 6	16 0
Cow & Gate, ord. stock, 1s. ...	3 0	2 6
Crosfield, J., & Sons, 5% cum. pre-pref.	26 3	26 3
Cussons Sons & Co., ord. stock, 2s.	20 0	18 9
Distillers, ord. stock, 4s. ...	26 6	27 6
Dubarry Perfumery Co., ord., 1s.	4 7½	4 6
Dunlop Rubber Co., ord. stock ...	73 3	74 0
Energen Foods Co., ord., 2s. ...	8 0	8 0
Eno Proprietaries, 5½% cum. pref.	26 6¾	26 3
Eucryl, stock, 2s.	6 3	5 9
Evans Medical Supplies, ord. stock	33 9	35 7½
Field, J. C. & J., ord., 10s. ...	28 9	28 9
Fisons, ord. stock	58 0	59 0
Fisons, 4½% cum. pref.	24 0	24 0
Galloway, P. H., ord., 2s. ...	4 9	4 9
Gillette Safety Razor Co. shares (no par value)	$53.00	$51.00
Glaxo Laboratories, ord. stock, 10s.	350 0	370 0
Glaxo Laboratories, 8% cum. prefd. ord. stock, 10s.	20 3¾	20 3¾
Gossage, W., & Sons, 5% 1st cum. pref.	26 3	26 3
Greeff-Chemicals Holdgs., ord. 5s.	13 6	14 0
Griffiths Hughes Proprietaries, ord.	32 6	30 7½
Guiterman, S., ord. stock, 2s. ...	2 9	3 0
Hampshire, F. W., stock, 5s. ...	80 0	80 0
Horlicks, stock, 5s.	29 4½	30 0
Hovenden, R., & Sons, 7% cum. "A" pref.	26 3	26 3

£1 unit unless otherwise stated	Aug. 31 1948	Sept. 30 1948
	s. d.	s. d.
Idris, "A" ord.	38 9	38 9
Ilford, ord. stock, 5s.	25 11¼	25 11
Imperial Chemical Industries, ord.	44 6	44 9
Imperial Chemical Industries, 7% cum. pref. stock	36 9	36 6
International Sponge Importers, ord. stock, 5s.	5 6	6 0
Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d.	15 7½	15 7
Kershaw, A., & Sons, ord., 1s. ...	1 3	1 3
Kleeman, O. & M., ord. stock, 1s.	24 0	22 3
Laporte Chemicals, ord. stock ...	20 7½	20 7
Lever Brothers & Unilever, ord.	48 9	48 9
Lewis & Burrows, ord. stock ...	30 0	30 0
Lewis & Peat, ord., 1s.	2 7½	2 7
Liebig's Extract of Meat, ord., £5	300 0	290 0
Macleans, 4% red. cum. pref. ...	20 0	20 0
Mellin's Food, 6% cum. pref ...	7 6	7 6
Milton Antiseptic, ord., 10s. ...	25 0	25 0
Mono Containers, 5s.	16 10½	15 0
Monsanto Chemicals, ord., 5s. ...	58 9	58 9
Pears, A. & F., 5% deb. stock, irred.	130%	130%
Potter & Clarke, ord. 1s. ...	4 6	4 6
Reckitt & Sons, ord. stock	106 3	107 6
Rolls Razor, prefd. ord., 10s. ...	25 0	25 0
Sangers, ord. stock, 5s.	29 6	30 0
"Sanitas" Trust, ord., 10s. ...	25 0	25 0
Savory & Moore, 5½% 1st red. cum. pref. stock	24 0	23 5¼
Sherley, A. F. & Co., 8% cum. prefd. ord.	22 6	22 6
Smith & Nephew Associated Cos., ord., 4s.	16 6	18 0
South African Druggists, ord. 5s.	23 9	23 0
Southalls (Birmingham), stock, 5s.	40 0	41 3
Sternol, 8% cum. ptpg. prefd. ord., 10s.	15 7½	15 7½
Stevenson & Howell, ord. stock, 5s.	25 0	25 6
Taylors, Cash Chemists, London, 6% cum. pref.	30 0	29 4½
Taylors, Cash Chemists, Trust, 6% cum. pref.	30 0	29 4½
Taylor's Drug Co., 7% "A" cum. pref.	31 10½	32 6
United Glass Bottle, ord. stock ...	72 6	72 6
Veno Drug Co., 12% cum. prefd. ord.	40 0	40 7¼
Virol, ord.	75 0	72 6
Viscose Development Co., ord. stock, 5s.	10 6	10 6
Vitamins, 1s.	4 6	4 3
Wesley, Harold, 5s.	15 7½	15 7½
Whites (Timothy) & Taylors, ord., 5s.	35 0	36 3
Whites (Timothy) & Taylors, 7½% cum. pref.	37 6	37 6
Wright, Layman & Umney, 7% cum. pref.	31 3	31 3
Yardley & Co., ord., 4s.	58 9	58 9
Yardley & Co., "A" ord., 4s. ...	58 9	58 9

CORRESPONDENCE

Pricing Prescriptions

SIR,—Mr. Speed's article (*C. & D.*, October 2, p. 434) instead of advancing the payment of chemists' accounts as he suggests, shows more likelihood of delaying them. With an increasing amount of dispensing and a dearth of qualified assistants, the additional work of sorting is thrown upon the contracting chemist. I have no knowledge of conditions in the North. As I have been chairman of the South-Eastern Pricing Committee for years, I claim to have some knowledge of those in the southern area. The outside demand for the services of young women capable of being trained for the work of pricing, and who have been trained for such work, is one of the factors that militates against a permanent staff. It frequently happens that a girl once so trained is snapped up by one of the commercial offices, though her training had been given in our Bureau. The logical way to deal with the matter is to establish additional pricing offices where the need for such is shown. Take the South-Eastern area, extending as it does from the Isle of Wight to the borders of London, and including the three large counties of Middlesex, Kent and Surrey. It should be quite easy to take some of the twelve constituent Committees and place them in a less overburdened area; or better still, to form out of the South-Eastern area another area with its own pricing establishment. By so doing you would "tap" an entirely new source of labour—a source not available in London. The matter is becoming urgent, and should be dealt with by the Joint Pricing Committee for England. When you think that the number of prescriptions in the South-Eastern area was in the region of one million (600,000 for the month of August), and how impossible it is to recruit and train a staff to deal with this additional influx, you realise the seriousness of the position. Mr. Speed says, "Chemists demand up-to-date payment on fully priced prescriptions." To give this should be the immediate aim of the overriding Committee. He also says, "The general scheme of pricing has failed to meet the demand." Yes, not because the method of pricing was wrong, but because the demand fell upon an organisation that could not expand sufficiently rapidly to become capable of dealing with it.

Yours faithfully,

J. E. FRENCH.

Sittingbourne.

NEW BOOKS

Pharmacology and Therapeutics in Nursing.—Marion S. Dooley, M.D., and Josephine Rappaport, R.N. 9¼ in. x 6 in. Pp. 444. 22s. 6d. McGraw-Hill Publishing Co., Ltd., Aldwych House, London, W.C.2. The book gives an up-to-date picture of pharmacology and therapeutics from a practical angle, including the effect of drugs, their administration, and their possible dangers. Doses are given in the metric system. The nomenclature of drugs is in the American form (e.g., phenobarbital for phenobarbitone), and the quart and pint referred to in the table of metric and apothecary equivalents are the American units.

Qualitative and Volumetric Analysis.—J. C. Giblin, B.Sc., A.R.I.C. 7¼ in. x 4¾ in. Pp. 171. 5s. Longmans, Green & Co., Ltd., 6-7 Clifford Street, London, W.1. The author, a schoolmaster, has provided in those subjects a course that should prove to be adequate for students training for first professional examinations. Particular attention has been given to explaining practical details and difficulties, while of particular note also is a section of fifteen pages devoted to the use of organic reagents in confirmatory tests for metals and acid radicles. Black type has been used through the text to emphasise important points.

American Pharmacy, Vol. II.—Editor-in-chief, Rufus A. Lyman, M.D. 10 in. x 7 in. Pp. 379. 42s. J. B. Lippincott Co., Aldine House, Bedford Street, London, W.C.2. Designed to follow Vol. I, which was published in 1946 (see *C. & D.*, 1946. II.182), part I of the new volume goes on to discuss at a more advanced level some of the subjects (e.g., solvents, stabilisers, injections, colloids, suspensions, emulsions, tablet manufacture, etc.) already mentioned in the earlier volume. New subjects discussed include the use of colouring and flavouring agents, and there is a chapter on odours and deodorants. Part II contains information not usually included in textbooks of pharmacy yet invaluable to the practising pharmacist, on special diet foods, surgical appliances and dressings, sutures, sickroom supplies and dental products, and a chapter on "Animal Health Pharmacy." Some eighteen authors have contributed, and Mr. George Urdang (director, American Institute of the History of Pharmacy) acted as technical editor. The volume is illustrated with more than a hundred line and half-tone blocks.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quan ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex Street, W.C.2, Oct. 6

BUSINESS in PHARMACEUTICAL and FINE CHEMICALS during the past week has been on a substantial scale with export inquiry for a wide range of products, and a continuing improvement in home trade. Prices are little changed. An increase of one penny per lb. is noted for the SACCHARATED IRON SALTS owing to the rise in the cost of LIQUID GLUCOSE. BENZOIC ACID which has been in short supply for the last few weeks is now more freely available; prices of B.P. grade range from 2s. 5d. per lb. upwards, according to quantity and pack. The Ministry of Supply has announced an increase in the maximum prices of all grades of ZINC OXIDE of £14 5s. per ton. The new prices are effective from October 1. BISMUTH METAL quotations are lower.

Activity in the CRUDE DRUGS markets has been slight with business restricted to a small range of commodities. A firmer market has developed in CARDAMOMS with spot stocks of most grades cleared from the market. The new-crop collection in India is now beginning and shippers' quotations are high. Aleppy greens, for example, has been offered recently at 7s. to 7s. 6d. per lb., c.i.f. As these prices are much above London ideas of value, buyers are standing out and it is likely that quotations will decline appreciably. BUCHU has been in fair request and supplies of short rounds on spot are low; for a bold leaf, 4s. per lb. is asked. ERGOT is a firm market and, although there are still some spot offers of Portuguese at 4s. 8d. to 4s. 9d. per lb., replacement prices have been as high as 5s., c.i.f. IPECACUANHA on spot is attracting few buyers at 23s. per lb.; the market is weaker at origin. A moderate trade has been passing in LIQUORICE JUICE. The market for LIQUORICE ROOT is tending easier. MENTHOL is steady on the spot but offers are firm from origin at 41s. 6d., c.i.f. PAPAIN is tending easier. A fair inquiry has been received for the better grades of Chinese RHUBARB. It is understood that the Belgian crop of CHAMOMILE FLOWERS is in the region of 100 tons, of which 80 tons has been sold, principally to France and the U.S.A.

The ESSENTIAL OILS trade remains quiet, although a small increase is noted in the demand for medicinal oils. ANISE OIL is dearer for shipment but spot quotations are unchanged.

U.S. Drug and Chemical Report

New York, October 1

No change has yet been noted in refined GLYCERIN prices but an early adjustment in selling schedules seems likely in view of the sharp break in the crude mark A slightly firmer tone in MENTHOL w reported during the week with pric ranging from $9.00 to $9.25 per lb. again an inside price of $8.95 a week earlie Large quantities of material have be sold by China for delivery in Octob December and offerings from this sour are understood to be very limited no Domestic production of MERCURY was per cent. less in the second quarter 1948 than in the first, but imports we greater than a whole normal year's r ceipts from abroad. Further domestic pr duction cuts are in prospect.

Spot prices on BALSAM PERU have bee withdrawn by some local houses as a r sult of the recent turn of events in Per where it is understood that plans a under way to control future production the item. CARNAUBA WAX and VANILL BEANS are also still unsettled, reflectir controls at the primary production centre Complete lack of buying interest i IPECACUANHA resulted in a sharp drop i quotations here—from $4.85 to $4.35 pe lb. for whole root. PODOPHYLLUM ROOT is i extremely short supply in the face of a ver heavy demand. Among the spices BLAC PEPPER and WHITE PEPPER were up by 1 to 13 cents per lb., respectively; neithe item was available below 89 cents per lb Several ESSENTIAL OILS were reduced i price during the week. CORIANDER OI was down $2 to $38 per lb.; DILL dow 25 cents to $7.75 per lb.; and EUCALYPTUS 2½ cents to 65 cents per lb. Some improve ment is reported in the demand for oils an AROMATIC CHEMICALS used in cosmetic and toilet items, but prices, generally, ar little changed.

Exchange Rates on London

Bank of England fixed rates at the open ing on Wednesday morning were:—

Centre	Quoted	October 6
*Alexandria ...	Piastres to £	97¼—97¾
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Pence to rupees	1-5 15/16—1-6 1/16
Brussels	Francs to £	176¼—176½
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
Dutch West Indies	Florins to £	7.59—7.61
*Hong Kong ...	Pence to $	1-2 15/16—1-3 1/16
Lisbon	Escudos to £	99.80—100.20
Montreal	Dollars to £	4.02¾—4.03¼
New York ...	Dollars to £	4.02¾—4.03¼
Oslo	Kroner to £	19.98—20.02
Paris	Francs to £	863.4—864.6
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Pence to $	2-3 31/32—2-4 7/32
Stockholm ...	Kroner to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates

Pharmaceutical Chemicals

ADRENALINE. — B.P. is quoted from 5s. 6d. to 6s. per gm. for natural and 2s. to 2s. 6d. for synthetic; racemic, 2s. per gm.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 9½d. per lb.

AMPHETAMINE. — Quotations for BASE and SULPHATE are at from 130s. to 140s. per lb. *d*-AMPHETAMINE is available at 17s. per oz.

ATROPINE.—Makers' rates per oz. are: ALKALOID, 41s. 3d.; 4-oz., 40s. 9d.; 25-oz., 40s. 3d. SULPHATE, 32s. 9d.; 4-oz., 32s. 3d.; 25-oz., 31s. 9d.

BENZOIC ACID.—More freely available. Makers' quotations are 2s. 5d. to 2s. 9d. per lb. for B.P., with technical grade, 2s. 4d. to 2s. 7d. SODIUM BENZOATE, 2s. 5d. to 2s. 8d.

BORAX.—Makers' current prices are: B.P. quality, granulated, £38 per ton; crystal, £39; powder, £39 10s. Commercial grades, £8 per ton less. Packed in 1-cwt. bags, delivered carriage paid in Great Britain in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

BUTYL CHLORAL HYDRATE. — Current prices are from 17s. 6d. per lb. upwards.

CAFFEINE.—Makers' prices per lb. are: ALKALOID, anhydrous, from 34s. 6d. to 39s. 6d., and B.P. from 32s. 6d. to 37s. 6d. CITRATE, B.P.C., 21s. to 26s.; SODIUM BENZOATE, B.P., 21s. 6d. to 26s. 6d.; SODIUM SALICYLATE, B.P.C., 22s. 3d. to 27s. 3d.; SODIUM IODIDE, 26s. to 30s. Assorted contracts may be booked (excluding caffeine sodium iodide) for not less than 5-cwt. lots over six months. Containers: 14-lb. tins and upwards, free; 1-cwt. kegs or cases, free for export, home trade charged extra (returnable). Carriage paid on net invoice value of £20 or more.

CARBROMAL. — Imported material is offered at about 33s. 6d. to 35s. per lb., ex warehouse.

COCAINE.—Rates per oz. are as follows: ALKALOID, CITRATE, and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.; ½-oz., 56s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; 8-oz., 54s. 3d.; 16-oz., 53s. 9d.; tins 25-oz., 53s. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz., 52s. 6d.; ½-oz., 50s.; 1-oz., 48s. 6d.; 4-oz., 48s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 25-oz., 46s. The quotations include cost of containers.

DIGITALIN, B.P.C.—Current quotations are from 9s. to 11s. 6d. per gm.

ETHER.—Makers' prices per lb. are: ANÆSTHETIC, 1 cwt., 2s. 10d.; 72-lb., 2s. 11½d. B.P., 5 cwt., 2s. 1½d.; less, 2s. 3½d. TECHNICAL, 1½d. per lb. less than B.P. The foregoing rates are for ether packed in winchesters. In 1-lb. bottles prices are 2½d. per lb. more.

ISOPROPYL ALCOHOL. — Makers quote 15s. 3d. per gall. for small lots.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

PHENOBARBITONE. — In good request. Current quotations for 28-lb. lots are at 36s. 6d. per lb. The SODIUM DERIVATIVE is available at the same price as the base.

SALICYLSULPHONIC ACID.—Makers' price is now at 12s. 6d. per lb.

Methylated Spirits

MAXIMUM selling prices per bulk gall. of industrial alcohol under the Order (S.I. 1948, No. 584), which came into operation on April 1, are:—

Industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 4s. 6d.; 100 gall. and under 500, 4s. 8d.; 30 gall. and under 100, 4s. 10d.; 10 gall. and under 30, 5s. Strength 64 o.p., 1d. per gall. more; 66 o.p., 2d. more; 68 o.p., 3d. more; 74 o.p., 5d. more. For industrial methylated spirit of standard toilet quality, the prices are 2d. per gall. more than the rates specified above.

Pyridinised industrial methylated spirit: 500 gall. and upwards in one delivery, strength 61 o.p., 4s. 8d.; 100 gall. and under 500, 4s. 10d.; 30 gall. and under 100, 5s.; 10 gall. and under 30, 5s. 2d. Strength 64 o.p., 1d. per gall. more. For methylated resin finish of standard quality, prices are 2d. above, and for methylated shellac finish of standard quality, 4d. above those of pyridinised spirit.

Mineralised methylated spirit: 100 gall. and upwards in one delivery, strength 61 o.p., 5s.; 30 gall. and under 100 gall., 5s. 2d.; 10 gall. and under 30, 5s. 4d.; strength 64 o.p., 1d. per gall. more.

The prices for industrial, pyridinised and mineralised are for plain material and if any substance is added the reasonable cost of such added substance may be added to the maximum prices.

Terms are delivery to buyer's premises; charges are made for packages but are credited in full when returned; the seller pays carriage on return of empty packages; cash in one month less 2½ per cent. discount. The seller may add any additional expense incurred by reason of a variation of any of the above terms.

For deliveries of less than 10 bulk gall. there is no maximum price.

Crude Drugs

ACONITE.—Steady. Indian on spot is quoted at 300s. per cwt.; a moderate trade in *Napellus* at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Steady. Japanese strip, 16s. to 18s. per lb., duty paid; forward, 14s. to 15s., c.i.f. South African powder, in tins in cases, is available at 20s. per lb., spot.

ALOES.—Cape on the spot has been in fair request at prices from 115s. to 130s., as to quality and seller. Curaçao in boxes, 200s. to 220s. per cwt., as to quality; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

ANTIMONY.—Metal prices are: 99.6 per cent., regulus, £210 per ton, delivered; 99 per cent., £200; 70 per cent. crude, £165.

ARECA NUTS.—Ceylon is offering ex warehouse, London, at 45s. per cwt.

ARNICA.—Flowers on spot are offered at prices from 1s. 9d. to 2s. 6d. per lb.

ASAFETIDA.—Steady. Persian block is offered at from £15 to £24 per cwt., spot.

BALSAMS.—Spot quotations for *Canada* are from 17s. 6d. to 19s. per lb. Pará *Copaiba* (soluble) is offered at 4s. 9d. to 5s. per lb., spot; Maranham, spot, 6s. 6d., nominal. San Salvador, *Peru*, is quoted at from 4s. 9d. to 5s. 3d. per lb., duty paid. *Tolu*, 15s. 6d. per lb., spot; near at hand, 15s.; 13s. 9d., c.i.f.

BAY LEAVES.—Quotations are steady at from 11d. to 1s. per lb., duty paid.

BELLADONNA.—Yugoslav root is quoted at from 4s. 6d. to 4s. 9d. per lb., duty paid, as to test; English leaves are offering at from 5s. 6d. to 7s. 6d. per lb., as to test.

BISMUTH.—The price of metal has been reduced to 10s. 9d. per lb. for minimum 5-cwt. lots.

BUCHU.—Short rounds are scarce on spot and 4s. per lb. is asked for a bold leaf of good colour with other grades at 3s. 10½d. and 3s. 11d.; forward, 3s. 8d. to 3s. 9d., c.i.f. Ovals, 3s. 6d. per lb., spot.

CALABAR BEANS.—Steady. Spot quotations are from 10½d to 11½d. per lb.

CALUMBA.—Natural root is offered at about 80s. per cwt., spot.

CAMPHOR.—A moderate business done. Chinese tablets are offered at from 9s. to 9s. 6d.; refined powder (B.P.), 7s. 9d. to 8s.; B.B. grade, 7s. 6d.; slabs (2½-lb.) from 7s. 3d.; crude powder, 6s. 6d. per lb., all spot London, duty paid.

CANTHARIDES.—Spot quotations are at about 8s. 3d. per lb.; shipment, 5s., c.i.f.

CARDAMOMS.—A firm market. Mangalore half-bleached A's, 9s., nominal, spot; B's, 8s., nominal; seeds, 8s., nominal. Aleppy seeds, 9s., spot, nominal; 8s. 9d. to 9s., c.i.f., per lb. Aleppy greens, 7s., spot; from 7s. to 7s. 6d., c.i.f. Ceylon seeds, 7s. 9d. per lb., nominal.

CASSIA POLS (*C. fistula*).—Prices of E Indian are around 65s. per cwt., ex wh

CHAULMOOGRA.—*Hydnocarpus* on spot quoted at 1s. 9d. per lb.

CHILLIES.—Mombasa, 110s. per cw spot; shipment, 95s., c.i.f.; Sierra Le 115s., nominal; Nigerian, 85s. to 90s., s

CLOVES.—Zanzibar, spot, quoted at 1 to 10½d. per lb.; shipment, 11d., c. Madagascar, spot, 9d., duty paid; shipme 7¾d., c.i.f. Penang, spot, 2s. 9d. to 3s. lb. Market is steady and quiet.

COLCHICUM.—Corms on the spot, offe at prices from 6s. 6d. to 7s. 6d. per Seeds are quoted at 13s. per lb., spot.

COLOCYNTH.—Pulp on the spot is offe at prices from 1s. 7½d. to 2s. per lb.

CUBEBS.—A parcel is offering at 3s. per lb., duty paid.

DERRIS ROOT.—Controlled price of t root and "other rotenone materials" 2s. 4d. per lb., ex warehouse.

DIGITALIS.—Steady, with only a fa business done. Portuguese leaves quot at about 150s. per cwt., spot; Englis from 2s. 3d. per lb.

DRAGONS BLOOD.—Singapore reboiled N 1, £65 per cwt., spot; No. 2 £35.

ELEMI.—Steady. Manila No. 1 on t spot is quoted 2s. 3d. per lb.

EPHEDRA.—Herb is offered at arou 62s. 6d. to 67s. 6d. per cwt., ex wharf.

ERGOT.—There are sellers of spot Port guese, new-crop, at 4s. 8d. per lb. Forwa prices have been as high as 4s. 9d. to 5s c.i.f., according to shipper.

GINGER.—Steady. African on spot quoted at 80s. per cwt.; new-crop, Septen ber-October, 76s., c.i.f. Jamaica No. quoted at 125s.; No. 2, 117s. 6d.; No. 115s. per cwt., spot.

GUM ACACIA.—Steady. Kordofan cleane sorts, 65s. per cwt., ex store, London shipment, September-October, 60s. 6d., c.i. Bleached No. 1, 125s., ex store; to arriv 115s., c.i.f. Talha, 45s., ex warehouse 42s., c.i.f.

IPECACUANHA. — Little business don Nicaraguan on spot is quoted at from 23s to 23s. 6d. per lb.; the forward market i weaker with shipment quoted at 17s., c.i.f

KAMALA.—Spot offers are at about 2s. 6d per lb.

KARAYA.—No. 1 gum on spot is quoted a 215s.; to arrive, 205s., c.i.f. No. 2, 180s per cwt., spot.

KINO.—A parcel of Indian gum is offere at 7s. 6d. per lb., spot London.

LIQUORICE. — Anatolian natural, spot from 47s. to 50s. per cwt., as to holder Syrian, 40s.; Russian, 45s. to 46s. Italia block, 285s. per cwt., spot; Italian stick from £385 to £525 per ton, as to quantit and grade. Turkish block, from 235s. pe cwt.; American block, £172 per ton.

MENTHOL.—Brazil on spot is offered at 44s. to 45s. per lb., duty paid; in bond, 42s.

MYRRH.—Aden sorts are quoted at £12 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

OLIBANUM.—Fair to good drop, from 200s.; peas, from 190s.; good garblings, 160s.; seeds, 170s.; siftings, 90s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 2d. to 1s. 5d., spot; sweet ribbon, 1s. 9d. Seville bitter ribbon, 1s. 1d.; thin-cut Tripoli, 1s. 2d. per lb.

PAPAIN.—East African No. 1 white is offering at about 21s. per lb., spot; Ceylon, 17s.

PIMENTO.—Spot, 1s. 2d. per lb.; to arrive, 119s. per cwt., c.i.f.

PODOPHYLLUM.—Steady. American (*peltatum*), spot, London at 280s. per cwt.; Indian (*emodi*), from 315s.

PSYLLIUM SEED.—French black is quoted at 2s. per lb., duty paid; Indian (isphagula) 120s. per cwt., spot.

QUASSIA.—Spot quotations for chips are 35s. to 36s. per cwt., as to holder.

QUILLAIA.—Natural bark is offering at 92s. 6d. per cwt., spot; cut is offered at 125s., and crushed at 120s.

QUINCE SEEDS.—Cape on spot is quoted at from 4s. 3d. to 5s. per lb.

RHUBARB. — A fair inquiry received. Chinese rough-round, good pinky fracture, on spot, 4s. to 4s. 9d. per lb. and upwards, according to seller; wormy, 2s. 6d. to 3s. Indian rhapontic is offered at 1s. per lb.; French, 1s. 6d.

SEEDS.—ANISE.—Cyprus is 1s. 5½d. per lb., and Turkish, 1s. 5d. per lb., duty paid, both spot London. CARAWAY.—Dutch is firm at 110s. per cwt., duty paid, spot London. CELERY.—Indian is quiet and unchanged at 1s. 2d. per lb., spot London or Liverpool. CORIANDER.—Market is quiet. Argentina quoted at 40s. per cwt., duty paid, spot London or Liverpool; Morocco is offered at 42s. 6d. per cwt., duty paid in London. CUMIN.—Indian in poor demand at 190s. per cwt., spot Liverpool; Cyprus is offered at 200s. per cwt., spot London; Polish is quoted at 165s. per cwt., duty paid, London. DILL.—Indian, 47s. per cwt., spot London, and 46s. per cwt., in Liverpool. FENNEL.—Indian, 72s. 6d. per cwt., spot London, and 71s. 6d. per cwt., quoted for a parcel now afloat to Liverpool. FENUGREEK.—Indian is unchanged at 55s. per cwt., spot London or Liverpool; Morocco spot London or Liverpool also quoted at 55s. per cwt., duty paid.

SENEGA.—Steady. Spot quotations are from 9s. 6d. to 10s. per lb., as to holder.

TRAGACANTH.—A fair trade in the manufacturing grades reported. Selected white, £90 per cwt.; other white grades, from £55 to £85; pale leaf, £35 to £40; amber, £20 to £27; red, £14; hoggy, about £10 10s.

TURMERIC. — A rather firm market. Madras finger, spot, 115s. per cwt.; 110s., c.i.f.

VALERIAN.—Lower prices are asked for Belgian root on spot from 145s. to 150s. per cwt.; cut, 165s. per cwt.

WAXES.—Steady, with a fair business. BEES'.—Dar-es-Salaam is quoted at 320s. per cwt., spot; shipment, 300s., c.i.f. Lindi, spot, 315s.; shipment, 295s. per cwt., c.i.f. Benguela, in bond, 310s.; shipment, 300s. per cwt., c.i.f. CANDELILLA.—Spot quotations are at 385s.; shipment, 375s., nominal, c.i.f. CARNAUBA.—Prime yellow, on spot, 725s.; shipment, 700s. per cwt., c.i.f. Fatty grey on spot is offered at 470s.; shipment, 450s. per cwt., c.i.f. Chalky grey, 460s., spot; 445s. per cwt., c.i.f. MONTAN.—Reibeck, 300s., spot; Czechoslovak crude, 270s. per cwt. OURICURI.—Spot. 1 per cent., 430s. SPERMACETI.—Spot supplies are at 3s. 1½d. per lb.

Essential and Expressed Oils

ANISE.—Steady. Chinese star, in drums, is quoted at 5s. per lb., with up to 6s. for smalls; October-November, shipment, 4s. 11d., c.i.f.

BAY.—West Indian is offered on the spot at from 6s. to 7s. 6d. per lb.

CAMPHOR.—White oil on spot is quoted at from 2s. 6d. to 2s. 8d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported, 28s. to 30s. per lb.

CASSIA. — Spot quotations are from 13s. 3d. per lb. for B.P. oil; forward, 9s. 3d., c.i.f.

CINNAMON.—B.P. oil, 60s. to 70s. per lb. Bark oil is offered at 12s. per oz. Leaf oil, on the spot, 7s. to 9s. per lb.

LAVANDIN.—Spot quotations are around 8s. 6d. per lb. A firmer market.

LEMONGRASS. — Spot quotations are around 5s. 3d. per lb.; shipment, 5s., c.i.f.

OLIVE.—Importers' price is 29s. 8d. per gall. of 9 lb. Wholesalers' prices are: 1 pint, 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; 1 gall., 37s. 6d.

ORIGANUM.—Quotations are from 18s. to 20s. per lb., spot, according to holder.

PINE.—*Pumilionis* is quoted at 17s. to 18s. per lb., spot; *sylvestris*, 9s. 6d. to 11s. 6d.

PINE NEEDLE.—Spot supplies are offered at 18s. to 20s. per lb., for first-grade oil.

ROSEMARY.—Spanish is offered at 7s. 6d. to 10s. per lb., as to quantity and quality.

TEASEED.—Spot supplies are offered at from 42s. to 45s. per gall. of 9-lb.

THYME. — Red oil (40-42 per cent. phenols), 12s. 6d. to 15s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 8s. to 8s. 6d. per lb., according to quantity.

VETIVERT.—Spot, 100s. per lb., nominal.

TRADE MARKS

(*From the "Trade Marks Journal," September* 15)

"VIKONON"; by Wallace (Pharmaceutical Products), Ltd., London, N.W.3; 659,621. For pharmaceutical preparations, excluding insect-destroying preparations (5).

"TENTAWIRE"; by T. H. R., Ltd., London, S.W.1; 663,746. For insecticides, fungicides, preparations for killing weeds and vermin and disinfectants (5).

"TSETOX"; by Ward, Blenkinsop & Co., Ltd., London, W.1; 670,719. For insecticides, larvicides, ovicides, bactericides and disinfectants (5).

"AIRMEC"; by Airmec, Ltd., Greenford; 658,529. For electrically operated apparatus and instruments for surgical, medical, dental and veterinary purposes (10).

"CHERUB"; by London Rubber Co., London, E.4; 659,787. For surgical, medical, dental and veterinary instruments and apparatus, all being made of rubber and none being clothing for surgical or curative purposes (10).

"BIF" in distinctive lettering; by Fred Hurtley, Ltd., 661,143. For surgical belts for men (10).

"MANIK"; by George H. Mander, Leeds; 659,927. For manicure sets (21).

"AIRFLOW"; by P. B. Cow & Co., Ltd., London, S.W.16; 663,729. For rubber hot-water bottles (21).

"KETKA"; by Osborne, Garrett & Co., Ltd., London, W.1; 663,821. For combs (21).

"DORSANA"; by Dorsan & Co., Ltd., London, S.E.1; 663,398. For all goods (10).

(*From the "Trade Marks Journal," September* 22)

"MERGAM"; by Plant Protection, Ltd., Yalding, Kent; 663,359. For chemical products (1). 663,605. For preparations for killing weeds and vermin, fungicides and insecticides (5).

"UNION DES PARFUMEURS DE FRANCE, MAITRE PARFUMEUR AGREE" on label device (letters "U.P.F." and words "Maitre Parfumeur Agree" disclaimed); by Union des Parfumeurs de France, Paris; 655,360. "TRI-FOAM"; by International Beauty Products, Ltd., London, W.1; B661,867. "KNAVE OF CLUBS"; by James Scott St. Barbe Baker, London, N.16; 664,229. For non-medicated toilet preparations (3).

"PLASTOCOLD"; by Virgilio Giuseppe Icardi, Redhill; 661,139. For preparations for use in cold-waving the hair (3).

"SESAMOL"; by Scottish Co-operative Wholesale Society, Ltd., Glasgow; 645,447. For medicated preparations for the treatment of the skin (5).

"57"; by H. J. Heinz Co., Ltd., London, N.W.10; 652,536. For strained fruits and vegetables, and cereals, all prepared as infants', invalids' or dietetic foods (5).

"VITEXIA"; by Cranston & Delf, Ltd., London, W.C.1; 657,036. "THORATOPES"; by Augustus Edward Gibbs, Ilford; 663,666. "ROFIX" and "NOVAMIDON"; by Bayer Products, Ltd., London, W.C.2; 663,447 and 667,578. For pharmaceutical preparations and substances (5).

"PANAXODYNE"; by Vale's Remedies, Ltd., Tunbridge Wells; 662,595. For veterinary preparations (5).

"ALODERM"; by Imperial Chemical (Pharmaceu cals), Ltd., Slough; 657,884. For pharmaceutic preparations for use in the treatment of sk ailments (5).

"POLIKIL"; by Geo. Monro, Ltd., Waltham Cros 662,553. "CALOTOX"; by F. W. Berk & Co Ltd., London, W.C.1; 663,825. "HYLARSOL" by British Schering, Ltd., London, W. 664,268. For insecticides and fungicides (5).

"CASTOLITE"; by T. J. Smith & Nephew, Ltd Hull; 663,687. For surgical dressings, etc. (5).

"LYOBECIN"; by Sharp & Dohme, Ltd., Hodde don; 663,937. For all goods (5).

"ZONDAGAM"; by the Standardised Disinfectan Co., Ltd., London, S.W.1; 664,004. For vete inary preparations, disinfectants and fungicide etc. (5).

"HOWAL" in distinctive lettering; by Hodgson Walkley, Ltd., London, W.C.2; B649,539. Fo hypodermic syringes (10).

"M.S.A. PLASTAL" (letters "M.S.A." di claimed); by the Medical Supply Association Ltd., London, W.C.1; 661,113. For all gooc excluding artificial dentures (10).

(*From the "Trade Marks Journal," September* 29

"PHOTOFLURE"; by Kodak, Ltd., Londor W.C.2; 654,530. For sensitised film for use i *x*-ray photography (1).

"DETEX"; by Ciba, Ltd., Basle; B660,629. F chemical substances for use in the textile in dustry (1).

"DETAC"; by the Pyrene Co., Ltd., Brentford B660,825. "S.V." in monogram form; b Vacuum Oil Co., Ltd., London, S.W.1 B661,445. For industrial chemicals (1).

"OPTREX"; by Optrex, Ltd., London, E.C.4 662,554. For all goods excluding films. "GENA TOSAN"; by Genatosan, Ltd., Loughborough 663,399. For all goods (1).

"MUMMOL"; by the Western Dental Manufac turing Co., Ltd., Bristol; 663,628. For mum mifying agents (1).

"ADA FELD"; by Ada Feld, London, W.11 650,743. "VILLAREAL"; by Villareal, Société Chérifienne de Parfums (Société Anonyme), Casablanca; B660,621. "BONEME"; by Hauer & Co., Ltd., Carlisle; 661,632. "BANTONA" by Ashe Laboratories, Ltd., London, S.W.1 663,028. "BIOCELLE" and "BENTOCELLE"; by Tokalon, Ltd., London, W.1; 663,607 and 663,875. For non-medicated toilet preparations (3).

"COLOGNE RUSSE BY KHASANA" on label device (letter "K" disclaimed); by R. Hovenden & Sons, Ltd., London, W.1; 656,504. For eau de Cologne (3).

"EXPOT"; by Corporate Industries, Ltd., London, S.W.5; B656,997. For stain-removing preparations (3).

"ANA BOLENA" on label device (letters "A.B." disclaimed); "LISELYS" and "DEBACO"; by Fernando Torrego Martin, Madrid; B657,746-48. For perfumes, perfumed oils for soaps, paper, sachets and soap (3).

Design of letter "W"; by W. & F. Walker, Ltd., Kirkby, Lancs; 659,988. For all goods (3).

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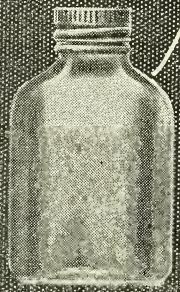

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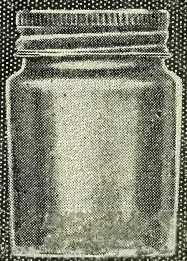

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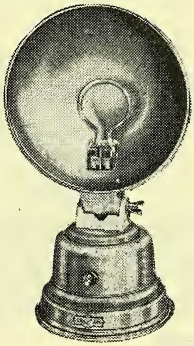

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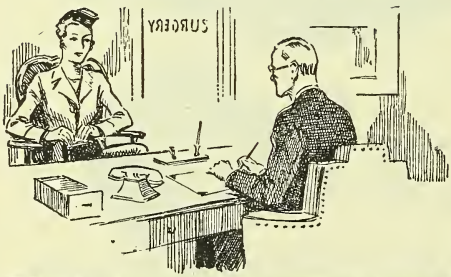

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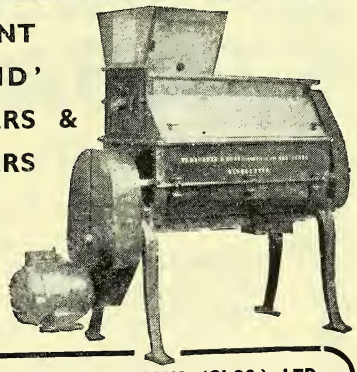

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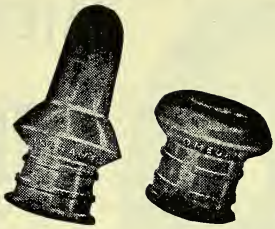

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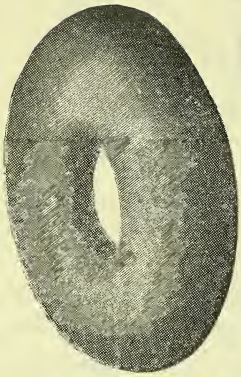

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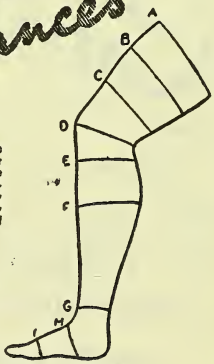

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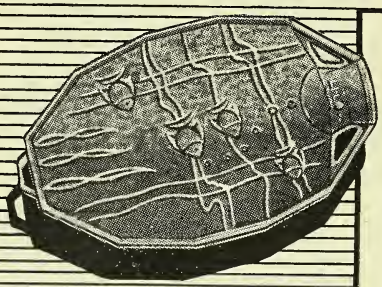

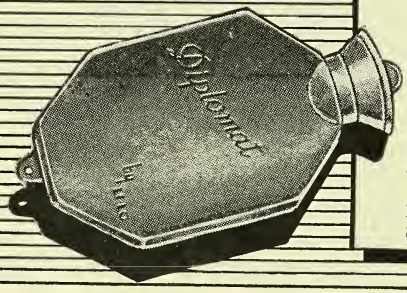

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92% of all cat powders sold are 'TIBS'

Market Survey shows Supremacy of 'TIBS'—and the Power of 'Tibs' Advertising

A market survey just completed in London and the South-East (covering approximately one-third of the population of Great Britain) revealed some interesting facts, on the buying habits of cat owners.

When users of cat condition powders were asked which brand they were in the habit of buying, 92% gave 'Tibs' as the answer. This was confirmed by asking a representative group of retailers which brand of cat powder they found most popular among their customers. In this section of the survey 'Tibs' scored 93%.

'TIBS' ADVERTISING PULLS!

Cat owners were also asked to give the factors which first influenced them to buy 'Tibs', 47% replied that an advertisement was responsible for their first purchase.

The figure of 47% is a remarkable testimony to the effectiveness of 'Tibs' advertising, particularly in view of the widespread reluctance of the public to *admit* the influence of advertising.

BRIGHT PROSPECTS FOR 'PREEN'

An earlier market survey revealed the surprising fact that *one in three cat owners* groom their cats regularly, and that the need for grooming is widely recognised. The potential market for a reliable dry-cleaning preparation for cats was indicated by replies to the question "What cleaning agent, if any, do you use when you groom your cat?". They included talcum powder, Vim, flour, vinegar.

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For further particulars write:
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Dept. C.D. 8, 75-79 Farringdon St., London, E.C.4.

Sellotape
SELF-ADHESIVE CELLULOSE TAPE

AND FOR YOU
SUCH SALES!

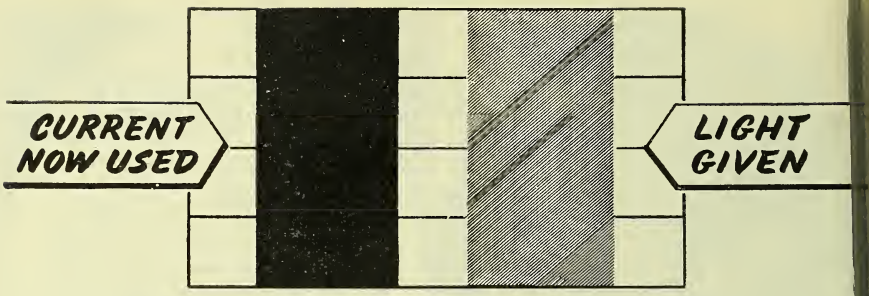
The latest addition to the Brobat range! A really effective wonder-working couponless household washer. Women—advised by Brobat Suds' intensive national advertising—are buying it and coming back for more. It's Suds for them and Sales for you if you stock

SELLING AT 8½D RETAIL

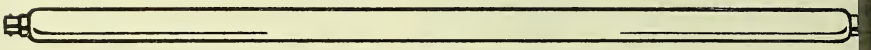
NATIONALLY ADVERTISED

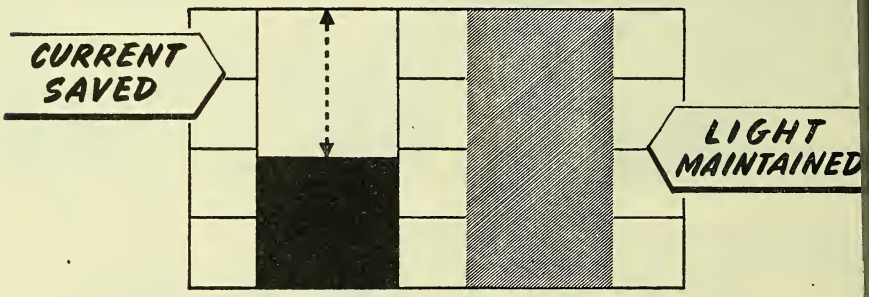
BROBAT Suds

Write for special trade terms:—
Brobat Manufacturing Co. Ltd., Wandle Bank, Wimbledon, S.W.19

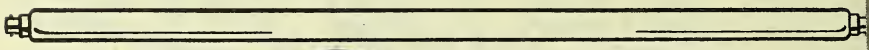


To maintain your standard of lighting –





—and, at the same time, save current, **change to—**



Osram

FLUORESCENT LIGHTING

AND G.E.C. FITTINGS

which will give the same illumination as your tungsten lighting with a saving in electricity of over 50%. G.E.C. Illuminating Engineers will advise and assist.

THE GENERAL ELECTRIC CO. LTD., MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

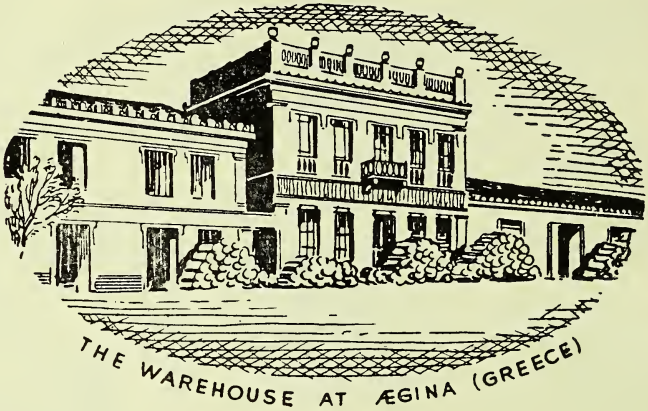
Infants Feeding Bottles –
Upright & Double-ended

another W product

MAKERS OF FINE GLASSWARE SINCE 1828

The double-ended Feeder is supplied spare, or packed in carton with Teat, Valve and Brush, the Upright Feeder, spare only. Our quality and workmanship is unrivalled, having specialised in the production of Feeding Bottles for over 100 years.

WOOD BROTHERS GLASS CO LTD OF BARNSLEY IN YORKSHIRE



"RELIANCE"

SPONGES

AND CHAMOIS LEATHERS

The illustration above is of one of the large warehouses on the Greek island of Aegina, where sponges from all the big fishing centres throughout the Mediterranean are collected, prepared and packed for distribution to the markets of the world. In our 100 years of steady progress we have maintained our reputation as the "right house" for Sponges and Chamois Leathers ("Reliance" Brand). Your enquiries will receive our courteous, prompt and knowledgeable attention.

We have no connection with any other firm advertising Sponges or Chamois Leathers in this Journal.

CRESSWELL BROS. & MARKS

(INTERNATIONAL SPONGE IMPORTERS LTD.)

5A BUCK STREET, CAMDEN TOWN, N.W.1

'PHONE: GULLIVER 5462-3. 'GRAMS: SPONGE, NORWEST, LONDON

C6

FROM FRANCE

DORIN ROUGE

FROM FRANCE

Made in the following colours:—

No. 451 Rouge Brunette
No. 492 Rouge Framboise
No. 516 Rose de Mossoul
No. 555 Rose Praline
No. 472 Rose des Blondes
No. 505 Rouge Orange
No. 530 Rouge Fraise
No. 560 Rouge Indien
No. 561 Rouge Grenade

Retail 3/- each inc. P.T.

Order from your usual Wholesaler or send your enquiries to :—

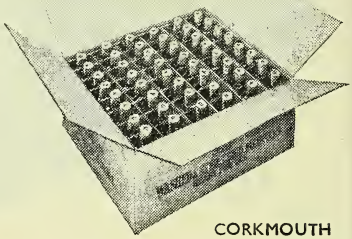
ALFRED FRANKS & BARTLETT CO. LTD.

AUDREY HOUSE · ELY PLACE · LONDON · E.C.1

The Complete Service

WASHED AND STERILISED READY FOR USE

FITTED KORKALITE, MOULDED OR ALUMINIUM CAPS



CORKMOUTH

UGB

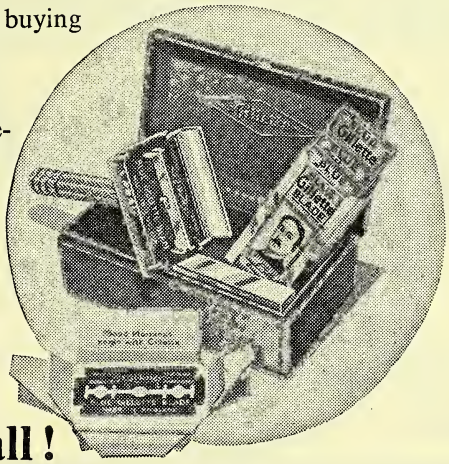
UNITED GLASS BOTTLE MANUFACTURERS LTD.

LEICESTER STREET, W.C.2

Tel.: GERRARD 8611 (15 Lines) *Grams*: UNGLABOMAN, LESQUARE, LONDON

She's going to give him a new Gillette razor set!

Thousands of women will soon be buying Gillette razor sets for Christmas presents. In addition to normal Gillette advertising, a special pre-Christmas campaign concentrating on the gift theme, and appealing to women, will be appearing. Add a good display of sets in your own windows . . . and the outlook for your Christmas trade is bright !

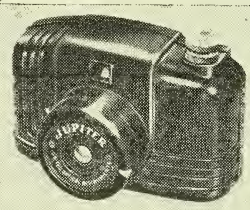


Let her see them all!

Trade enquiries to your usual wholesaler or direct to
Gillette Industries Limited, Great West Road, Isleworth, Middlesex

Introducing the

JUPITER



THE STREAMLINED DIRECT VISION CAMERA THAT TAKES PERFECT PICTURES

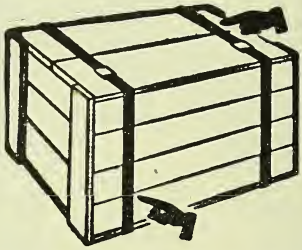
F.11 lens optically designed to give correct focussing 4 ft. to infinity. Shutter speed 1/25th sec. Time exposure for night or day shots. 16 photographs on Perico Standard 27 Roll Film (available from the distributors), or Kodak 127-Selo 27. Easy film change. Unconditionally guaranteed. Retails at 42/- incl. P.T.
Sole Distributors: PERICO PRODUCTS, 162 High Street, Southend-on-Sea Essex

USE :—

Wire Bands

BANDING SYSTEM

It's speedy! It's simple!! Above all—It's Secure!!!



THESE BANDS WILL ENSURE YO
GOODS ARE DELIVERED INTA

Wire Bands

114, LANCEFIELD STREET, LONDON, W
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A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for — Cushion Comfort

Trade Mark "Totty Pot" Patent-applied for

A NON-CORROSIVE ACID-PRO
HYGIENIC CHILD'S CHAMB

Detachable ring, easily removed cleaning purposes

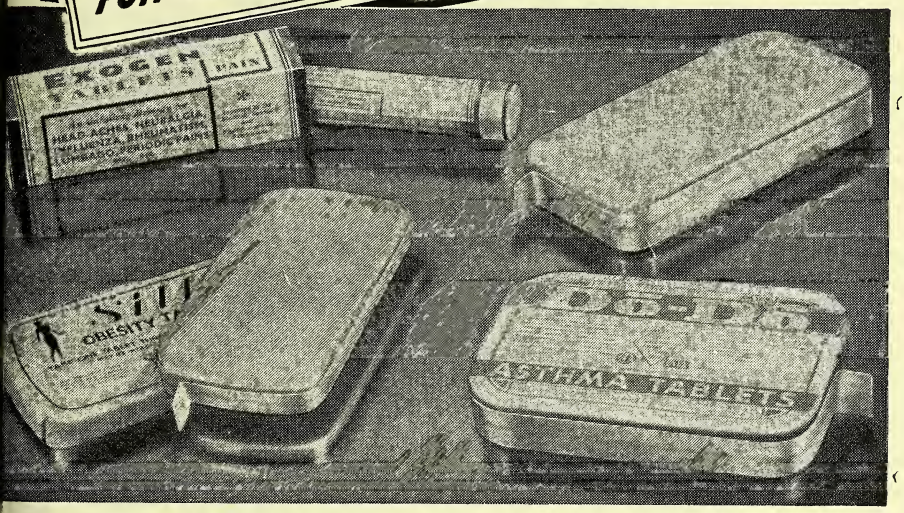
Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS
J. BILLIG & SONS LTD.,
ESTABLISHED 1899

BILTIN WORKS, FONTHILL Rd LONDON N.
TELEPHONE: ARCHWAY 2753 & 3858

Use "DUREX" Cellulose TAPE
(fully transparent and in colours)
FOR ALL YOUR PACKAGING JOBS



The Perfect Seal . . . for packs of any shape or ze. . . . No heat or moisture required—simply apply with light finger essure and it sticks. "DUREX" Cellulose TAPE is the most satisfactory osure for the moisture-proof type of cellulose film. . . . Write to-day for ll details and prices.

Transparent and in colours in rolls 72 yds. (2,592 ins.) long and in a range of widths.

"DUREX" Cellulose TAPE

UREX ABRASIVES LTD., ARDEN RD., ADDERLEY PARK, BIRMINGHAM, 8

B.B.T.

FIRST *appearance* of CELPAC

Cartons in blue and sepia on a white ground in eye-catching outers of one dozen each are now available for window and counter display.

NEW *pain reliever!*

CELPAC is the NEW pain-reliever with a special appeal to women . . . for the relief of pain at period time. The informative leaflet enclosed with the bottle is the customer's complete guide to CELPAC'S many and valuable uses. Include CELPAC in your next order.

TRADE: 18/- (plus 6/- Purchase Tax) per dozen bottles
CELPAC sells at 2/6d. per bottle inc. Tax.

a Cellusan *product*

The CELLUSAN Co., Ltd.
Essex Rd., London, N.1.
Telephone: CLISSOLD 4761 (4 lines)

A Quick Turnov

Display 'SLEEK,' the popular plastic adh strapping, Customers like its neat ap ance. Turnover is quick and supplies are a The handy 'SLEEK' Sales Manual tell and your staff all about 'Sleek'. Ask r sentative for FREE copy, or send us p.

1"x5 yard spools . . . Retail 2/- eac
2"x5 yard spools . . . Retail 3/6 eac

'Sleek' TRADE MARK PLASTIC ADHE STRAPPI

Herts Pharmaceuticals Ltd., Welwyn Gdn. City,
Telephone: Wel. Garden 3333

F. H. STEELE & Co. L

Manufacturing Chemists

BLACKROCK · DUBLIN

Now offer wide range of

MEDICATED PASTILLES
LOZENGES · TABLETS
CORDIALS & SQUASHES
CHEWING GUM (including non-medicated) CHEMISTS' CONFECTIONERY AND TOILETRIES

Specially made and attractively packed for chemist trade only

All products of highest stand manufactured under ideal conditi

EXPORT TRADE ENQUIRIES INVI

Phone: Dublin 83610 *Grams:* 'Destel, Black

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

CHEMISTS' CF FORMULA

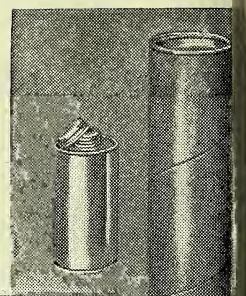
Supplies may be obtained from C.F. Wholesale Houses

ZEMS LTD.

718-724 Seven Sisters Road, London, N.15

Thinking of Containers...

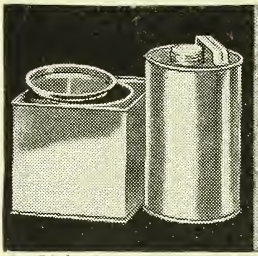
Why not ask us for illustrated leaflets and quotations ?

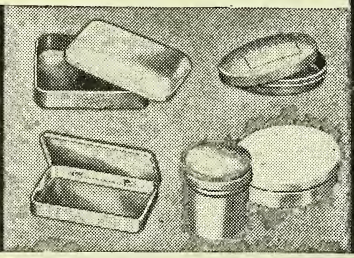


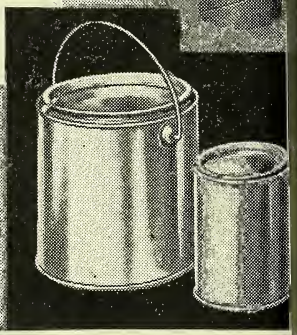
PER CENTA
THE CONTAINER PEOPLE

Phone:
HOP 0516
(6 lines)

Percenta Ltd., Percenta House, 130/2 Tooley Street, London, S.E.1







IT SELLS ON SIGHT!

When your customers see this package of Feen-a-mint — the famous *original* chewing gum laxative—it sells on sight ! It is smartly cellulose-film wrapped and as display-worthy as ever ! Order to-day, from your usual wholesaler.

Feen-a-mint

WHITE LABORATORIES LTD., MITCHAM, SURREY

NIPITS

TEASDALE & CO. LTD., CARLISLE

GLYCERYL MONOSTEARATE

Guaranteed Food and Drugs Qualit

REGULAR SUPPLIES AVAILABL

Samples and quotations upon reque

The Faylene Manufacturing Compan
15 Queens Court, Lower Briggate, Leeds
Telephone 22594

THE WHOLE FAMILY

ESPECIALLY THE CHILDREN

LOVE THE HONEY IN

. . . and it's good for them. A formula you can positively approve . . . well-known for its quick soothing action . . . supported by responsible advertising reaching 20,000,000 readers . . . ***and of course 'Pineate' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over; 10% on orders of £5 and over.***

Trade Terms: 13/9 per doz.
Pur. Tax 4/7 per doz.
Retail at 1/11 (*including tax*)

Pineate
Trade Mark
HONEY
Cough-Syrup

NTERNATIONAL CHEMICAL CO. LTD., CHENIES STREET, LONDON, W.C.1

It's an EDME product!

BEVAREX

A nourishing and sustaining

MALT FOOD BEVERAGE

of OUTSTANDING merit

Retails at 1/8 per 6 oz. tin
Wholesale 13/6 doz.

Showcards available
further particulars from

EDME LTD., IMPERIAL HOUSE, REGENT STREET, W.

Telephone: REGent 5563-4 Grams: "EDME," Piccy, London Works: MISTLEY, ESSE

NASCENT SULPHAQUA SULPHUR

MEDICATED SOAP PRESCRIBED MEDICALLY FOR BATH CHARGES

ECZEMA - ACNE - SEBORRHŒA and OTHER SKIN and SCALP AFFECTIONS
NO COUPONS IF PRESCRIBED
12/- Doz. + 4/- P.T. - - Retail 1/7 Inc. Tax

RHEUMATISM - LUMBAGO - SCIATICA GOUT and PARASITIC SKIN AFFECTIONS
RELIEVES SEVERE PAIN & ITCHING
6/- Doz. + 2/- P.T. - - Retail 10d. Inc. Tax

S. P. CHARGES CO., ST. HELENS, LANCS. - Est. 1895

Tablets and Pills Packed or Bulk

ASPIRIN
CASCARA
and all
TABLETS and PILLS

Private formulæ Pills and Tablets carefully and accurately prepared at lowest possible prices
Latest Automatic Pill Plant
WE WELCOME ENQUIRIES

CASTLE HUSKISSON LTD.
MANUFACTURING CHEMISTS
SWINTON WORKS, MOON STREET, ISLINGTON
LONDON, N.1
Telephone: Canonbury 3466
ESTABLISHED 1768

Now in Better Supply!

Pharmacists will welcome the information that a marked improvement in production now permits the removal of restrictions on supplies. Orders may now be placed without limitation on quantity, thus enabling chemists to meet the continually increasing demand for this popular antacid.

'Milk of Magnesia'

Regd.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3.

One woman tells another

WE have been surprised to find how often an older woman recommends Juno-Junipah to younger friends.

Gently and without any harsh action Juno-Junipah is helping more and more women every week. That's why sales are steadily increasing.

JUNO-JUNIPAH

The Women's own Health Salts

THOMAS MARNS LTD.
2 Caxton Street, London, S.W.1
Phone: WHItehall 6310

· JOHN KNOX · JOHN KNOX · JOHN KNOX ·

Everything for the Chemist and only for the Chemist!

Immediate attention to all orders. Post orders despatched same day. Weekly Van Service throughout the Midlands. John Knox Service is yours to command!

John Knox

(Stoke-on-Trent), Ltd.

Jaynox Works, King Street, Fenton, Stoke-on-Trent.

P.A.T.A.

John Knox (Midland) Ltd. 36/38 Dean St. Birmingham, 5

· JOHN KNOX · JOHN KNOX · JOHN KNOX ·

AN ALL-BRITISH FIRM

have pleasure in announcing that :—

BRONCHOVYDRI

is back on the British Market.

Exempt from Purchase Tax

This Inhalant for the Treatment of Asthma is now Obtainable from the

Manufacturers and Sole Distributors :—

BRONCHOVYDRIN (1945) Ltd.
12 WESTWOOD ROAD, BARNES, S.W.13

Blackcurrant syrup in modern therapy

Apart from its inherent virtues as a rich source of *natural* vitamin C, now increasingly recognised, Ribena Blackcurrant Syrup has a marked degree of acceptability by persons in many dietary categories.

The food foibles of the delicate child; the fickleness of palate of the pregnant woman are equally met by the palatability of Ribena. In more exacting cases, *e.g.*, patients with peptic ulcer, Ribena is tolerated in a measure that is pleasing to doctor and patient alike.

Blackcurrant syrup is recommended as a vitamin C supplement in the Ministries of Food and Health publication "Diets for patients with ulcers of the stomach and duodenum."

Ribena contains not less than 20 mg. ascorbic acid per fluid ounce together with the associated factors of the natural vitamin.

Ribena
BLACKCURRANT SYRUP

You should be able to obtain enough Ribena to meet the needs of all your priority customers—expectant and nursing mothers, infants and invalids.

In case of any difficulty please write to us: H. W. Carter & Co. Ltd., The Old Refinery, Bristol, 2.

THE *Modern* ANTACID..

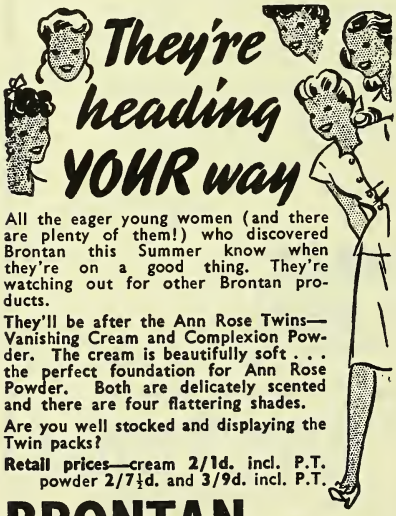
Magtriz Tablets are an effectiv combination of Magnesium Trisil cate and Magnesium Hydroxid and provide prompt relief an prolonged control in all cases Hyperchlorhydria as recommende by the Medical Profession.

MAGTRIZ

DIGESTIVE TABLET

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

WESTMINSTER LABORATORIES LTD., Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7



All the eager young women (and there are plenty of them!) who discovered Brontan this Summer know when they're on a good thing. They're watching out for other Brontan products.

They'll be after the Ann Rose Twins—Vanishing Cream and Complexion Powder. The cream is beautifully soft . . . the perfect foundation for Ann Rose Powder. Both are delicately scented and there are four flattering shades.

Are you well stocked and displaying the Twin packs?

Retail prices—cream 2/1d. incl. P.T.
powder 2/7½d. and 3/9d. incl. P.T.

BRONTAN (Regd.), Ltd.,

1 BROAD STREET BUILDINGS,
LIVERPOOL STREET, LONDON, E.C.2

Phone: BIShopsgate 6383

NOW BEING ADVERTISED TO THE PUBLIC

for the first time in this Country

Antiphlogistine

HUMAN AND VETERINARY

Extra discount on minimum order for £5.

on the P.A.T.A.

THE DENVER CHEMICAL MFG. CO.

12 Carlisle Road, London, N.W.9

STURGE CITRIC ACID

JOHN & E. STURGE
LIMITED
1 WHEELEYS ROAD · BIRMINGHAM 15
Manufacturers of Fine Chemicals since 1823

Thousands see these "New-angle" headline

Heavy and sustained national advertising means bigger sales of **D.D.D. PRESCRIPTION**— famous ***non-greasy, non-staining*** liquid skin he National and Provincial Papers, Magazines, Posters Car-cards are keeping up the pressure. The public is learning, more more, that D.D.D. Prescription does a fine quick, skin-healing job—so take advantage of the dem

D.D.D. TOILET SOAP, too, is featured in press publicity . . . D.D.D. Prescription to up skin troubles ***quickly,*** D.D.D. pure, superfatted Toilet Soap to keep the most delicate ***always*** clear and healthy.

★ *Your wholesaler can now supply D.D.D. Prescription and D.D.D. Toilet Soap from*

D.D.D. Prescription 1/7 and 3/9 per bottle
D.D.D. Toilet Soap 1/4½ per tablet

D.D.D. CO. LT
3 FLEET LANE, LONDON, E

Distributor for Northern Ireland — Messrs. J. & W. C. Gaw, 30 Bankmore Street, Belfast
Distributor for Eire—Messrs. Henry Finn & Co. Ltd., Central Hotel Stockrooms, Exchequer Street, Dublin

Jennings

FAMOUS FOR OVER 80 YEARS

WHOOPING COUGH MIXTURE

and for other dry coughs too!

Certain Relief—
Certain Sales—
Widely Advertised

RETAILING AT **1/6**

ALFRED FENNINGS, HORSHAM, SUSSEX.
(formerly of Cowes, I.O.W.)

CORONET COMBS

The comb that your women customers have been demanding for years. Graceful, strong, yet inexpensive, moulded in jewel-like transparent shades of ruby, sapphire and diamond clear crystal. Here is the comb designed by the makers of Peragon Brushes, for lovely hair.

Details of trade terms and this attractive sales aid display card from your usual wholesaler or —

Paragon

Export Enquiries invited

157-161 REGENT STREET, LONDON, W.1 TELEPHONE: REGENT 1054 (10 LINES)

The fall of the leaf,

nature's visual sign of the approach of winter, the time when constantly changing temperature increases the incidence of the common cold.

P.A.T.A.

Serocalcin is acknowledged by many authorities to be an effective preparation for assisting in the prevention and treatment of colds. Many thousands will shortly be starting their prophylactic course.

Meet this demand for Serocalcin by ordering your supplies as soon as possible. Packed in 20's and 60's.

★ **Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno, Ltd., Watford, Herts (Watford 7761), to whom all orders and enquiries should be sent.**

SEROCALCIN

FOR THE PREVENTION & TREATMENT OF COLD

HARWOODS LABORATORIES LTD · WATFORD · HERTS

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2.

The CHEMIST AND DRUGGIST SUPPLEMENT

Supplement is in-
ed in every copy of
Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

OCTOBER 9
1948

ORRIDGE & CO. (Estd. 1846)

Northern Ireland. Wholesale and retail busi-
s for sale in important City, extremely well
ate. Turnover last year nearly £44,000. Gross
fit nearly £12,000 and net profit £5,175.
ck and fixtures worth over £10,000. Price
uired approximately £15,000 plus stock at
uation or about £22,000 in total. Banker's
erence with application.

South Africa—Transvaal. General retail busi-
s. Scope for optics. Turnover last year
,311. Stock worth over £1,200. Attractive
tures and fittings. Total purchase price re-
ired £6,500, cash prefered. Many other busi-
ses for sale in the Union. Details upon request.

Essex Coast. Vendor buying another business.
ll-established terrace shop. Turnover last year
,800. Net profit this year should reach £1,200.
all but attractive living accommodation at pre-
t sublet; possession could be obtained. Heavy
ck. Premises for sale or on lease. Price re-
ired for business £3,000 plus stock at valuation.

Sussex Coast. Popular health resort. Busi-
s run under management. Takings average £190 per week throughout the year. Rent after allowing for sublet £185 per annum. Purchase price required for valuable goodwill and fixtures £3,000 plus stock at valuation.

5. London, South-East. Middle-class business. Turnover last year just over £3,800. Excellent living accommodation with four bedrooms. Rent £85 per annum. Long lease. Price required £3,000 all at or valuation terms entertained.

6. Scotland, Important Town. Vendor returning South, early sale desired. Turnover about £4,500 per annum. Scope. Price required for goodwill £500 plus stock and fixtures. Property for sale for £2,000. Private house available.

7. Cumberland. Wholesale and manufacturing business offering scope with additional capital. Turnover this year should exceed £5,000. Tangible assets including van estimated at £1,980. Total purchase price required about £2,500.

8. Northern Spa. High-class dispensing business. Net profit last year nearly £1,400. New lease at extremely low rental. Valuable stock and fixtures. Main road. Total purchase price required £6,750.

184 STRAND • LONDON • W.C.2

Telephone: TEMPLE BAR 9212/3—6340 Telegrams: Orridgchem Estrand, London

Branch Offices: 36 Cannon St., Birmingham, 2. Phone: Midland 6547
77 High St., Shirley, Southampton. Phone: Southampton 71708

For SALES, PURCHASES, VALUATIONS, STOCKTAKING *and* ASSESSMENTS

BUSINESSES FOR DISPOSAL

r 36 words or less, 3d. for every additional word

NESS of wholesale and manufacturing chemists
ondon incl. lease of factory for sale as going
rn. High-class pharmaceuticals are made.
profit. Necessary capital £2,500. Box 4/822.

BURGH Chemists' business for sale with pro-
and fittings in Central Leith. Property £1,000.
gs £500, Stock at valuation. Turnover for last
cial year £3,500. Full particulars in confidence
Box 4/830.

RD (near). Drug store and toilet business
ng excellent scope under qualified proprietor-
Turnover for 1946-47 £4,950. Main road
on. Good lease. Moderate rental. Total
£1,850, but quick sale desired and first
iable offer accepted. Box 4/785.

ESTABLISHED CHEMISTS' wholesale distribut-
business for sale. Turnover approximately
,000 per annum. Total purchase price to
de very valuable freehold approximately
,000 or control could be purchased for materi-
less. Banker's reference with application.
Box 4/833.

OLD-ESTABLISHED pharmacy, London, S.E. (drug store over last 2 years), living accommodation available shortly. 21 years' lease, rent £130 per annum. Good toilet quotas, direct accounts. Lease, goodwill, stock, fixtures, £2,200 all at. Box 4/802.

WELL-ESTABLISHED medicine store business, centrally situated near market place in town of 10,000. Turnover 1947 £1,612. Roomy house attached, reasonable rent. Stock about £300. Price, goodwill, stock and fixtures, £600. Offers scope for young man. Vickers, Aswell St. Corner, Louth, Lincolnshire.

WHOLESALE AND RETAIL surgical appliance manufacturing business. Established 70 years. Freehold factory, including stock, machinery, etc.; also sales shop in centre of one of the Midland's most enterprising cities. Owners wish to retire. Purchase price £15,000. Apply Box 4/703.

EXPORT TRADE

EXPORT. Large manufacturing company of chemists' sundry lines with over 50 first-class sole distributors all over the world is prepared to take over on an exclusive basis the export of first-class products suitable for their customers. Please write to Box 4/814.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

8/6 for 36 words or less, 3d. for every additional word

RETAIL (HOME)

ARE YOU YOUNG, qualified and with good dispensing experience? Here is your opportunity to take charge of the dispensing department in a large and busy pharmacy in Essex. The right salary will be paid to the right person. Write for interview, giving your particulars, to Macarthy's, Ltd., 28 Market Pl., Romford.

ASSISTANT. Qualified or experienced unqualified required, for a busy dispensing business at Clapham Junction. An opportunity will be given of obtaining experience in optics. Reply, giving full particulars, and stating salary required, to W. L. Darby, Ltd., 102 Falcon Rd., S.W.11.

ASSISTANT REQUIRED, qualified or unqualified, for dispensing and counter. Please apply, stating usual particulars, to Norman Brook, M.P.S., 142 Huddersfield Rd., Mirfield.

BATES & HUNT (Chemists) LTD., Wellington, Shropshire, have vacancies for two pharmacists. 1. Manager, with good dispensing experience, for an easily run business in country market town on main line. 2. Permanent relief manager, suitable for newly qualified. Good dispensing businesses in pleasant agricultural area. Excellent prospects.

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £8 15s. to £10 5s. Metropolitan District £8 7s. 6d. to £9 17s. 6d. Provinces £8 to £9 10s.. (Female) Central London £8 5s. to £9 15s. Metropolitan District £7 17s. 6d. to £9 7s. 6d. Provinces £7 10s. to £9 according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurances, etc. There are also a number of vacancies for unqualified assistants fully trained in the business and including those dispensers who have been released by doctors, etc. Good remuneration with a view to permanency, pension scheme, etc. A bonus is paid to all staff engaged in dispensing. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience and districts preferred.

BRIGHTSIDE & CARBROOK Co-operative Chemists, Ltd., have vacancies for qualified and unqualified branch pharmacists, male or female. Permanent progressive positions, good conditions and salary, with superannuation scheme in operation. Apply: Superintendent Chemist at the Registered Office, 32 Sycamore St., Sheffield, 1.

CHESTER. Assistant, qualified or unqualified, for dispensing and counter work. Permanency. Good prospects. Usual particulars and salary required. Milling-Johnson, Ltd., Town Hall Sq., Chester.

COMMENCING Salary of £12 per week for Qualified Lady or Gentleman Pharmacist in a progressive and secure position. S.E. London. Box 4/777.

DERBY. Pharmacist required. Lady or gent. Excellent opportunity for recently-qualified to gain experience in large establishment. Congenial conditions. Apply, giving full particulars, to Secretary, Derby Co-operative Society, Ltd., Albion St., Derby.

EXPERIENCED lady assistant required for busy high-class Pharmacy, with Jane Seymour, Arden, beautheric agencies, four in staff, good salary, congenial post, present girl 15 years. Usual particulars to T. M. Ashford 16 Market Square, Aylesbury. Telephone Aylesbury 211.

HULL. PHARMACIST (male or female) required. Salary offered £10 per week. Write, giving full particulars, with age, also available references, which will be returned promptly. V. & E. Wall, Ltd., 437 Anlaby Rd., Hull.

HECKMONDWIKE and District Co-ope Society, Ltd. Qualified pharmacy branch ma required, male or female; permanency for su applicant. Superannuation scheme in ope with transfer clause. House available in plea situated district. Applications, stating age experience, to the Secretary, Heckmondwik District Co-operative Society, Ltd., 3 Oal Heckmondwike.

LADY ASSISTANT (unqualified) for dispensin counter in good-class pharmacy in country r town. Responsible, capable and dependable, saleswoman essential. Apply, giving full part of experience, age, salary required and when able. Gibson & Son, Chemists and Opticians Old Pharmacy, Hexham, Northumberland.

LADY, UNQUALIFIED, for pharmacy in La area. Apply Lewis & Burrows,, Ltd., 146 H E.C.1.

LEWIS WING LTD. require the services of a fied man with Dispensing and Counter exper Apply Managing Director, Lewis Wing Lt Regent Street, Weston-super-Mare.

LINCOLNSHIRE. Country town. Qualified ant (either sex); elderly pharmacist require an interesting business situated in beautiful c within easy reach of seaside. Box 4/447.

LONDON, S.E. Lady required for counter. pensing experience an advantage but not ess Large & Teague, 401 New Cross Road, S.E.

MALE AND FEMALE unqualified assistants re for busy counter and dispensing business in C London. Good wages and prospects to keen, getic workers. Apply, the Secretary, tele Fla 5955.

MANAGER required for new and modern c shop at Upminster Excellent salary offer really keen man. Must be qualified. Apply A 4 Cameron Road, Seven Kings.

MANAGER (Male) required for good class pha at 34 Leinster Terrace, Lancaster Gate, W.2. apply to Mr. Ball, 151 Westbourne Terrace, Pa ton, W.2.

MANAGERESS required for cosmetic and toil partment. Kindly forward full particulars i instance. Box 4/782.

NORTH KENT. 11 miles London. Qualified macist, male or female, for locum or perma Salary £10. Commission arranged later. As October 19. Box 4/744.

NUNEATON. Lesters (Chemists) Ltd., ha vacancy for phamacist. Duties mainly dispe Large pharmacy, congenial staff, pleasant w conditions. House or recommended "digs." able as desired. Commencing salary 11-12 according to experience. Please forward ful ticulars experience, age (not more than 33 height, and photograph (returnable) if possi L. H. Lester, Rexall Pharmacy, Nuneaton, wickshire. Phone Nuneaton 3426/7.

ORRIDGE & CO., Employment Agency, 184 S W.C.2. Temple Bar 9212/3. Branches at S ampton and Birmingham. Enquiries invited all employers seeking staff. Many pharmacist unqualified assistants available for retail and v sale. Representatives also requiring situa Reasonable terms. Write to 184 Strand, W.C. particulars.

PHARMACIST, take charge of branch, Paddi area. Good salary and prospects for suitabl plicant. Apply Box 4/784.

PHARMACIST required for dispensing duties in busy pharmacy with T.S.A. license. App letter, stating age, experience, and wage req to Secretary, Hartlepools Co-operative Che Ltd., Stockton St., West Hartlepool.

PRICING CLERK. with sound knowledge of c sundries and pharmaceuticals, required at Interview essential. Particulars to Macarthy's, 28 Market Pl., Romford, Essex.

LIFIED ASSISTANT required for counter and ising in high-class pharmacy (T.S.A. Licence). remuneration. Accommodation will be found essary. Permanency. Chave & Jackson, Ltd., ord.

LIFIED CHEMIST required by drug stores ed Welling residential area. No opposition. al required £750, to equip dispensary. Possi- 300 scripts weekly. Directorship or partner- terms. Write in first instance, Fisher, 38 ope Rd., Bexleyheath, Kent.

LIFIED BRANCH MANAGER required. £10 veek and commission on dispensing (minimum Accommodation available. Superannuation ne in operation. Apply Kidderminster Co- tive Chemists, Ltd., Oxford St., Kidder- er.

LIFED PHARMACIST required, lady or gent, in class pharmacy in Birmingham. Good hours, ent prospects. Apply Box 4/831.

TH COAST. Young qualified assistant required diately for dispensing in a busy good-class macy. Would suit a recently qualified man us to gain further experience. Must be cap- of occasionally taking charge. Particulars to ey Richards, 34 St. Thomas St., Weymouth.

ROYAL ARSENAL CO-OPERATIVE Society Ltd., acancies in South-east and South-west districts ndon for qualified Pharmacy Managers. Salary on sales ranging from £550 to £650 per n, plus commission on health insurance dis- ng. Permanent progressive positions. Super- ation scheme in operation. Application stating experience, whether married or single, to the Manager, 113 Powis Street, Woolwich, S.E.18.

UALIFIED, experienced dispensing assistant red by chemist, Hammersmith area. Apply t/783.

IED. Qualified pharmacist, lady or gentle- to manage small country business in West g of Yorkshire. House attached. Box 4/763.

IED, male or female, experienced or just ied dispenser for new shop, 20 miles London. ed company now being formed; an interest me to suitable applicant might be considered. , first instance, to Box 4/818.

VEEKLY OFFERED unqualified assistant (either for working-class business with busy N.H.S., n few minutes Waterloo Station, London, . Can wait if necessary for suitable applicant. in strict confidence, to Box 4/603.

RETAIL (OVERSEAS)

BAY. Extremely good opening for young ied pharmacist; 22-28 years, single, in old- lished company manufacturing and retail ists. (English managing director.) 3 years' ment. First-class return passage. 3 months' on full pay at completion of agreement. Free ers and medical attention. Provident fund its Commencing salary Rs. 900 a month rox. £710 per annum). Apply Biddle, Sawyer ., 4 Grafton St., W.1.

WHOLESALE

ERTISING EXECUTIVE required in London by ding firm of manufacturing chemists. Appli- should be experienced in writing medical and naceutical literature. The post is a permanent s highly paid, and offers exceptional prospects man with a natural flair for this specialised and only those with the necessary qualifi- ns should apply. Please give details of age, experience, etc., to Box 4/798.

NT on commission basis wanted, calling on and chemists, for sale of toilet sponges and ois leathers. Write, Box PA 910, Deacon's rtising, 36 Leadenhall St., E.C.3.

NTS and travellers required to handle first grade etics and perfumes. Eberhardie, 68 Amberley , London, W.9.

PHARMACISTS practising optics should now, more than ever, protect their interests.

Write the Hon. Secretary
INSTITUTE OF CHEMISTS-OPTICIANS
2, Clements Inn, W.C.2.

ALLEN & HANBURYS, LTD., Ware, Hertfordshire, require young pharmacists aged 23-28 as technical assistants on production work. Apply in writing to Personnel Manager.

AN INTERESTING opportunity occurs for a young qualified chemist, experienced in sauce and food manufacture with company of international reputation. Replies, stating age, experience, etc., will be treated in strict confidence. Salary will be a generous one commensurate with experience and qualifications. Box 4/810.

AN OLD-ESTABLISHED London house require a young, qualified assistant chemist, capable of conducting routine analysis of products, and supervision of poisons. Write, giving full particulars of age, experience, salary required. Box 4/788.

ANALYST required for analytical research; some previous analytical experience essential. Salary in accordance with qualifications and experience. Apply initially in writing, quoting reference number 1942 to the Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

ASSISTANT with some pharmaceutical experience required for pill department of manufacturing chemists in London area. Apply with full particulars and salary required, to Box 4/790.

ASSISTANT EXPORT MANAGER required in London by a firm of manufacturing chemists having a large and rapidly growing turnover in all parts of the world. Only those experienced in the pharmaceutical industry need apply. The post is a permanent one, offering unique prospects to a keen man of real ability. A good salary will be paid to the successful applicant capable of undertaking increasing responsibility. Please reply, giving details of age, previous experience, etc., to Sales Manager, Box 4/796.

GENERAL SALES MANAGER

An important company of manufacturing chemists operating a range of nationally advertised toilet and pharmaceutical preparations of international reputation requires a high-calibre General Sales Manager. The position is one requiring a high degree of knowledge of modern sales promotion, advertising and sales office organisation and the applicant must be well used to large turnover business. The salary will be in the region of £2,000 per annum, according to the capability of the successful candidate. Please give full details of past career in your first application, to Box 4/750.

BRITISH CHEMICALS & BIOLOGICALS, LTD. (controlling Benger's, Ltd., Genatosan, Ltd., and Whiffen & Sons, Ltd.), require an assistant in their medical department, at Loughborough. Duties will include correspondence with the medical profession and the compilation of technical literature. A degree in pharmacy or science is desirable and an ability to write lucid English is essential. Previous experience of this work will be advantageous, but is not a necessity. Applications should be addressed to the Sales Director, British Chemicals & Biologicals, Ltd., Loughborough, Leics.

DEPARTMENTAL MANAGER for patents and sundries, wanted by well-known Manchester wholesale house. Position offers scope and prospects for right man with experience, initiative and energy. Write, stating full details and salary required, to Departmental Manager, Box 4/760.

EXPERIENCED REPRESENTATIVES required, all areas, for toilet and household brushes. Company established in 1810. Must have own car and live connection amongst chemists, stores, etc. Salary, commission, expenses. Write, stating age, full experience, to Titterton & Howard, Ltd., 24 Old Bond St., London, W.1.

FIRST-CLASS REPRESENTATIVE required in the Leicester, Nottinghamshire area to call upon doctors, chemists and hospitals in connection with ethical pharmaceutical products. Applicants must reside on the ground. Salary commission, expenses basis. Box 4/826.

LONDON Chemists' Wholesalers with unusual lines require two go-ahead representatives with connection chemists, etc., in London and the Home Counties, north of the Thames. Live-wire salesmen will be given salary, comms., bonuses, exps. Cars provided. Apply Box 4/746.

MANUFACTURERS of pharmaceutical specialities in popular and growing demand have vacancies for experienced representatives or Sole Agents, capable of taking over existing accounts and developing following territories:—(1) Midland Counties; (2) South-West and South Wales; (3) Home Counties. The appointments are exceptionally attractive. Applicants should be car owners and provide proof of outstanding selling ability and established connections with chemists, stores, and Co-ops. Fullest particulars necessary in first letter. Box 4/821.

MANUFACTURING CHEMISTS of specialities and general lines in popular demand require salesmen for Yorkshire and the South of England. Applicants must be well-introduced with doctors, hospitals, chemists and wholesalers. Car owners preferred. Box 4/738.

MEDICAL REPRESENTATIVES required to call on hospitals and doctors in: (1) Birmingham; (2) N.E. Counties; (3) North Lancs; (4) Devon and Cornwall. Ability and experience in detailing and selling an advantage, but registered pharmacists with a high-class pharmaceutical background would receive thorough training. Residence on territory desired. Age not over 35 years. Full details with application, to Evans Medical Supplies, Ltd., Home Medical Department, Speke, Liverpool, 19.

MEDICAL/TRADE REPRESENTATIVES residing in or near Cardiff, Birmingham and Leicester are required by London pharmaceutical house. Pharmaceutical experience an advantage but not essential. Full expenses, progressive salary and pension. Write in first instance to Box 4/482.

PART-TIME AGENTS required for most areas of British Isles to introduce proprietary lines, sanitary towels, surgical dressings, hot water bottles, etc. Part expenses and generous commissions. Please give full details in first letter. Lax-Vita, Ltd., 66 Victoria St., London, S.W.1.

PUBLICITY. Pharmacist (male) required as personal assistant to publicity manager. This is an outstanding opportunity for a young man wishing to enter upon a permanent career in commercial publicity. The position has excellent prospects for the right man. Apply initially in writing, quoting Ref. No. 1941, to the Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

REPRESENTATIVE required by old-established London Drug House. Must have live, personal connection in East Anglia (Thames to the Wash). Salary, Expenses and Commission. Apply stating qualifications, experience in fullest detail to Box 4/827.

REPRESENTATIVE wanted by old-established company of manufacturing chemists to sell their nationally advertised products to chemists in Lancashire, Cheshire and Northern Ireland. Must be resident in Lancashire. Experience unnecessary but must have energy and the will to work. Car owner. Progressive position. Salary, commission and expenses. Write in detail to Box 4/815.

REPRESENTATIVE required for part-time Full details to Box 4/809.

REPRESENTATIVE under 30 required by well- London perfumery and cosmetic manufactu fill vacancy in Northumberland and East area caused by promotion of present represen Apply, giving full details of age, experienc to Box 4/819.

REPRESENTATIVE required by old esta London Drug House for London area, mainly Must have good personal connection. Salar penses and Commission. Apply, stating expe qualifications and fullest details to Box 4/781

REPRESENTATIVES having a retail con wanted, to carry clearance line in ladies brushes manufactured by well-known house commission basis. Reply in confidence, Box

REPRESENTATIVES, resident London, Bourne Bristol, Exeter or Plymouth, are invited t tact established chemist sundries' house. natively would consider appointment of and hand over existing connection. Apply i fidence to Box 4/807.

REPRESENTATIVE required by old-establishe don house for Midland territory. App should have live connection with retail c and preferably some previous retail expe not necessarily qualified. Please state ag perience and remuneration required. Box

REPRESENTATIVES required for Scherk face and tars, after-shave lotion, in Midland (Bi ham, Sheffield, Leeds, etc.), and Counties of the Thames. Commission basis. Ideal add lines. Write or phone Scherk, Ltd., 47 Mansions, London, S.W.1. Victoria 5191.

REPRESENTATIVES for three territories requi ethical pharmaceutical house with wide ra preparations calling on wholesale and retail ists only in (1) Lancs, West Riding, Che South Wales, Glos; (3) Midlands and East offer a permanent position with liberal salar penses and commission to A1 men having lished connection and long experience. Sen details to Box 4/671.

RESEARCH CHEMIST. Paton & Baldwins, worsted and woollen yarn manufacturers of Scotland, and elsewhere in the United Ki and overseas, invite applications for the p research chemist to the company. Research into the finishing, dyeing and processing of and other fibres will be supervised from the pany's branch at Alloa. Applicants, who preferably have had experience in the Texti dustry, should apply in writing, giving inform as to experience and stating salary require "The Chairman," Paton & Baldwins, Ltd., Scotland.

S. MAW SON & SONS, LIMITED, require an Sales Manager to develop and expand It's e Overseas Trade. Knowledge and experience of seas markets, conditions, restrictions and oppo ties more important than a knowledge of the ist's trade. Write in confidence giving full parti of sales and other experience, War Service, and ies earned, to the Secretary, S. Maw Son & Limited, New Barnet, Herts.

SALES MANAGER required in London by a of manufacturing chemists, with a large hom export trade. A man of wide experience in development is sought, having pharmace qualifications, and capable of initiating schemes, controlling representatives, etc. The is an important one, offering unlimited scop a good salary will be paid. The successful cant will work closely with the managing dir relieving the latter in due course of much o work at present undertaken by him. Please (in strictest confidence) giving age, full deta previous experience, etc., to Managing Dir Box 4/797.

AR COATER. An opportunity occurs for a lass coater with experience in all types of and coloured work. To take charge of de- ent in old-established London House. Write, details of age, experience and salary re- d. Box 4/789.

UALIFIED ASSISTANT, male, experienced s, patents, sundries, for wholesale manufac- g chemists in York. Write, stating age, pre- experience, etc., to Box 4/817.

UALIFIED LADY required for testing and s laboratory of chemical manufacturers North lon. Applications with full particulars, train- experience, if any, age and salary required, ox 4/532.

UALIFIED MAN required for wholesale manu- ring chemists' veterinary work in Shrewsbury. le, aged 25 to 35. Apply Box 4/630.

L-KNOWN pharmaceutical house requires sales- calling on Chemists. Remuneration by salary, mission and expenses. "Live" men are invi- o apply, giving experience of past selling record, etail to Box 4/780.

WHOLESALE (OVERSEAS)

MBAY. Works manager required for pharma- ical manufacturing company. Pharmacist or . with experience of manufacturing. Age not 32 years, preferably single. Minimum salary ed Rs. 1350 per month (approx. £1,000 per um), plus free living quarters and medical at- ion. First-class passage. 3 years' agreement 3 months' leave on full pay after completion. npany has provident fund benefits. Exception- good opportunity to ambitious, energetic man. ellent future prospects. Apply Biddle, Sawyer o., 4 Grafton St., W.1.

SITUATIONS WANTED

for 18 words or less, 1d. for every additional word

RETAIL (HOME)

GHLY-EDUCATED young young man wishes train chemist's assistant in London area. Some pre- us experience. Box 4/795.

ALIFIED DISPENSER or assistant, requires per- nency London area or temporary entertained. Not istered Pharmacist. Gregory, 16 Norfolk Square, ndon, W.2.

OCKTAKING, quiet and efficient workmanship, r 30 years' practical experience. Personal super- on. C. W. Playfoot, 8 Aylward Rd., Merton k, S.W.20. Tel. Liberty 4104.

WHOLESALE

VERTISER, with a sound and successful record business management, and the ethics of sales motion desires change. Many years pharmaceu- l trade. May interest a firm considering re- anising, or a young concern with a progressive look. Box 4/801.

VERTISING EXECUTIVE, many years experience rmaceutical trade, home and export, desires nge. Replies to Box 4/828.

REMAN PROCESS WORKER, medicinal prepara- ns, compressed tablets, cosmetics, perfumery, ks position London or near. Disengaged. Box 08.

ARMACIST. Over 20 years' first-class experience retail and wholesale pharmacy desires a pro- ssive managerial or executive position; also in- ested in ethical propaganda. Resident on Sussex st. Car owner. Box 4/793.

PRESENTATIVE, having wide experience, over 20 rs retail and wholesale chemist, grocery and ed trades, Yorkshire, desires change. Resident eds. Telephone. Car owner. Only highly re- nerative position considered in return for first- ss specialised representation. Box 4/804.

SALES MANAGER, wishing change, sound experience in chemists' and grocery trade, used to producing excellent steady increase in sales, also to factory and sales staff control, seeks progressive position with enterprising firm. Box 4/714.

APPOINTMENTS

BOLTON & DISTRICT HOSPITAL MANAGEMENT COMMITTEE

TOWNLEYS HOSPITAL, FARNWORTH, NR. BOLTON.

An ASSISTANT IN DISPENSING is required for Townleys Hospital. Preference will be given to applicants holding the Apothecaries' Hall Certificate. Previous hospital experience is not essential. The commencing salary is £270 per annum for candidates who hold the Apothecaries' Hall Certificate. The appointment is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be sent as soon as possible to the Medical Superintendent, Townleys Hospital, Farnworth, Near Bolton.

H. P. TRAVIS, Secretary.

CENTRAL GROUP NORTH EAST METROPOLITAN HOSPITAL BOARD

c/o METROPOLITAN HOSPITAL, Kingsland Road, London, E.8.

Applications are invited for post of ASSISTANT PHARMACIST at the Metropolitan Hospital. The post affords good experience in busy general hospital, including preparation of galenicals and sterile products. Recently qualified eligible, but previous hospital experience may determine commencing salary on J.N.C. Scale. The provisions of the National Health Service Act Superannuation Regulations will apply. Particulars of age, sex, qualifications, experience and reference in first instance to The Group Secretary.

CONNAUGHT HOSPITAL, E.17

LOCUM ASSISTANT DISPENSER required October 18th to 27th. J.N.C. Salary and Conditions. Application, stating age, qualification and experience, to be sent to R. Halton Harrison (Forest Group 11) Hospital Management Committee, Langthorne Hospital, Union Rd., E.11.

EXETER & MID-DEVON HOSPITALS MANAGEMENT COMMITTEE

Royal Devon & Exeter Hospital, Exeter. Two ASSISTANT PHARMACISTS (male) required. Salary according to J.N.C. (Hospital Staffs) scale. Hospital experience preferred but not essential. The posts are subject to the National Health Service (Superannuation) Regulations. Applications with full particulars, and copies of not more than three testimonials, as soon as possible to the Secretary.

ROYAL EYE HOSPITAL

WANTED AN ASSISTANT DISPENSER Hall certificate, to work under Pharmacist at the Royal Eye Hospital, St. Georges Circus, S.E.1, commencing 1st November next. Salary in accordance with approved scale. Apply with copies of testimonials to the Secretary at the above address, not later than Tuesday the 26th October.

KENT COUNTY COUNCIL
ASSISTANT PHARMACIST

Applications are invited for the following appointment.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (male), hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

The person appointed will, in the first instance, be employed at the County Pharmacy, County Hall, Maidstone, and transferred to the service of the Regional Hospital Board at a later date.

W. L. PLATTS,
Clerk of the County Council.

County Hall, Maidstone.
September 17, 1948.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Council.

MINISTRY OF HEALTH

NATIONAL HEALTH SERVICE ACT, 1946
DRUG TESTING SCHEME

Applications are invited for the analysis of samples of drugs and medicines taken on test prescriptions dispensed by pharmacists and authorised sellers of poisons under Part IV of the Act. Six analysts are required to do the work under contract with groups of Executive Councils. The fee payable for each analysis will be £2 2s., and each analyst will have about 1,000 samples per annum, the precise number being determined by the capacity of the analyst's laboratory and other circumstances. The possession of a pharmaceutical qualification in addition to the F.R.I.C. (Branch E) will be an advantage and it is essential that the staff who will perform the work shall be experienced in pharmaceutical analysis. The scheme will operate as from 1st January, 1949, and will be governed by the conditions of a Drug Testing Scheme to be drawn up by each Executive Council on the lines of a Model Scheme prepared by the Department.

Applicants should state their own qualifications and experience, and those of the staff to be employed by them on the work and also the yearly number of analyses they are prepared to undertake.

Application should be addressed to:—
The Chief Pharmacist,
Ministry of Health,
Whitehall, S.W.1,
and should be received not later than Monday, November 1st.

Copies of the Model Scheme may be obtained on application to the Chief Pharmacist.

MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMAC required at HAREFIELD COUNTY HOS TAL, Harefield, Middx. J.N.C. (Hosp. St salary £370-£450 p.a. inclusive. Similar perience may determine commencing sal Recently qualified pharmacists eligible. Wh time, unestablished, possible establishment, ject to medical examination. Application, ing age, qualifications, experience, with co of up to 3 recent testimonials, to MEDIC DIRECTOR at Hospital, IMMEDIATE (quoting E.146 CD).

QUEEN MARY'S HOSPITAL FOR THE EAST END WEST HAM GROUP No. 9 STRATFORD, LONDON, E.15

ASSISTANT PHARMACIST required. C mencing salary depending on experience in accordance with the J.N.C. (Hospital Sta Scale. Previous hospital experience not es tial. Hours, 9 a.m. to 5 p.m. Saturday, 9 a to 1 p.m. No Sunday or late duties. Appl tions with details of experience should be s to the undersigned.

J. C. DURNAN, Chief Pharmac

REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX

REGISTERED ASSISTANT PHARMACI required. J.N.C. (Hosp. Staffs) salary £3 £450 p.a. inclusive. Similar experience m determine commencing salary. Whole-ti established, pensionable, subject to medical amination. Application, stating age, qualifi tions, experience, with copies of up to th recent testimonials, to Medical Director Hospital immediately (quoting D.815 CD). forms.

ROYAL VICTORIA INFIRMARY

ASSISTANT PHARMACIST required by t United Newcastle-upon-Tyne Hospitals (Ro Victoria Infirmary). J.N.C. (Hospital Sta scale £370 to £450 per annum. inclusive. perience may determine the commencing sala Applicants must hold one of the Pharmaceuti Society's qualifications. Hospital experience w be an advantage but not essential. Applicatio stating age, qualificatons, and experence, gether with copies of recent testimonials shou be sent to Dr. A. W. Sanderson, House Govern Royal Victoria Infirmary, Newcastle-upon-Ty as soon as possible.

ST. BERNARD'S HOSPITAL, SOUTHALL, MIDDLESEX

CHIEF PHARMACIST and ASSISTAN PHARMACIST required for duty at St. B nard's Hospital, Southall, Middlesex. Can dates must be Registered Pharmacists. Salar Chief Pharmacist £485, rising to £585 a yea Assistant Pharmacist £370, rising to £450 year. Commencing salary according to e perience. Apply in writing, giving full d tails of age, experience, etc., to Physici Superintendent at hospital.

SOUTHEND-ON-SEA HOSPITAL
ENERAL HOSPITAL ROCHFORD, ESSEX

plications are invited for the position of ief Pharmacist at the above hospital. Applits must be members of the Pharmaceutical iety and previous hospital experience is deble, but not essential. One Assistant is at ent employed and the salary scale is £485 annum, rising by annual increments of £20 £585 per annum. Consideration of previous pital experience may be given when fixing commencing salary, and it is possible that adjustment may be made when the staffing ition in the dispensary is reviewed.

Application forms and conditions of appointnt may be obtained from the Medical perintendent, General Hospital, Rochford, ex, to whom the completed form should be urned not later than two weeks from the e of publication of this advertisement.

JOHN WILLIAMS,
Secretary,
Hospital Management Committee.
Warrior Square,
Southend-on-Sea,
Essex.

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

EGISTERED ASSISTANT PHARMACIST quired at Ashford Hospital, Ashford, Middx. lary on J.N.C. (Hosp. Staffs) Scale, £370 £15 to £450 p.a. inc. Similar experience ll determine commencing salary. Non-resint, whole-time, pensionable, subject to medil examination and one month's notice. Post cant now.

Application, stating age, quals. and experice, with copies of up to 3 recent testionials, to Medical Director of Hospital mediately.

WITHINGTON HOSPITAL (ADULT GENERAL—1,479 beds), MANCHESTER, 20

Registered pharmacists are invited to apply r the appointment of ASSISTANT PHARACIST at a salary ranging from £370 to 450. Candidates with hospital experience ill be preferred, but are not essential, and in etermining the commencing salary experience the grade will be taken into account. The commendations of the Joint Negotiating ommittee (Hospital Staffs) in regard to contions of service are applicable. Applications ating age, qualifications and experience should each the Medical Superintendent by October 5, 1948.

AGENCIES

6 for 36 words or less, 4d. for every additional word

ENTS required to sell nationally advertised prots to ironmongers, chemists, domestic stores, Liberal commission. Territories vacant, Wilts, nts, Berks, Bucks, Oxon, Dorset, Essex, Suf-, Norfolk, Derby, Notts, Lincs, Leics. Write, No. 123 C.P.W., 185 Fleet St., E.C.4.

EMISTS' WHOLESALERS and agents wanted all as. Company representation being withdrawn. l-established lines. Interested companies please te Box W.1837, Haddons', Salisbury Sq., Lon-, E.C.4.

PORTANT London company merchandising blished packed proprietary detergent, desirous appointing active, well-connected agents for rth London, Midlands, East Anglia, Lancashire, stern Counties, on commission basis. Box 4/734.

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements and Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

AGENCIES WANTED

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GENTLEMAN with first-class connection among chemists, hairdressers and stores in London and Home Counties seeks saleable lines on a commission basis. Not cosmetics. Car owner. Box 4/806.

MIDLAND AND EASTERN COUNTIES. Capable representative, at present representing firm of repute, seeks two or three agencies, perfumery or pharmaceutical, for the above territory. Car owner, strong connection. Only reputable houses considered. Box 4/800.

YOUNG LADY covering Northern Ireland, calling on Wholesale Chemists, Drapers, etc., desires one more agency. Increase in turnover guaranteed provided quality right. Own car. Sound connection. Only firms of repute considered. Box 4204, Eason's Advertising Service, Belfast.

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ALLIED NATIONAL CORPORATION, LTD., Chemicals and dyestuffs exporters. Our travelling representatives are now visiting Argentine, Brazil, and Uruguay, and will be pleased to receive details of any lines suitable for sale in those markets, or will follow up enquiries on behalf of manufacturers. Address: Anco House, 22 Buckingham Gate, London, S.W.1.

ESSENCE DISTILLERS and manufacturing chemists, small, making high-class essences for bakery, ice cream, confectionery, etc., interested in pharmaceutical and toilet preparations, would consider merging with another house, or co-operate with large users of essences. Box 4/805.

MANUFACTURERS of nationally advertised proprietary line of toilet goods distributing directly to chemists, Co-operatives and deparemental stores, would consider handling allied lines on a sole distribution arrangement, or might form joint distributing company. Letters, to Box 4/812, will be treated in strictest confidence.

MANUFACTURING CHEMISTS have facilities and space available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

NATION-WIDE sales organisation with remarkable record of successful merchandising is open to consider one or two lines. Only branded lines offering possibilities of big permanent business are of interest. Box S.551, c/o Erwoods, Ltd., 211 Piccadilly, London, W.1.

OPTICIAN/PHARMACIST. London, S.E. Accommodation available above chemist's shop in busy main road. Advantageous proposition offered to optician with pharmacy qualification. Large, 401 New Cross Rd., S.E.14. Tideway 1903.

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WELL-KNOWN COMPANY manufacturing nationally advertised proprietary line sold to chemists, hairdressers, stores and Co-operatives is considering acquiring interest, or purchase outright, well-established manufacturing concern marketing high-class proprietary article. Write in confidence to Box 4/816.

MISCELLANEOUS SALES

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BOTTLES FOR SALE. Offer wanted for 165 gross 1-oz. flat and 121 gross 2-oz. barrel. New, with bakelite caps Carlou, Ltd., 54-56 Waterloo Rd., London, S.E.1. Waterloo 6050.

FOR IMMEDIATE CLEARANCE. Pale yellowish/cream colour distilled fatty acid, 96/98%, 12 tons. Light brown bulk stereom n.p. 97/99 deg. F., 5 tons. Pale brown distilled oleine 94 %, 2 tons. Recovered rosin, 3 tons. Sulphonated fatty alcohol paste, 1 cwt. Black bone oil, 5 tons. Herring and cod oil mixed, 5 tons. Offers are required. Box 4/792.

FOR SALE. 2½ cwts. Calcium Hypophosphite B. P. at 3/- lb. 3 cwts. Calcium Gluconate B.P. at 2/8 lb. Samples on request. Box 4/829.

FOR SALE. 97 cwt. bleaching powder 37% available chlorine packed in 1 cwt. drums. Any reasonable offer accepted. Graham, 99 Leek Rd., Smallthorne, Stoke-on-Trent. Phone S-O-T 84094.

FOR SALE. 1, 2 dr. perfume bottles; 1, 2, 4 oz. toilet bottles; 2, 4 oz. Fr. cylindr. bottles; 1, 2 oz. white flint squat jars; 2 oz. toilet black jars. Surplus stock, below manfg. prices; prompt delivery. 5 gross upwards. Ada & Co., Ltd., 140 Goldhurst Terrace, N.W.6. Tel. Mai 3463

GLASS JARS. One gallon, 1 in. neck, two handles, C/M, 4/- each, post free. Cash with order. Deb Chemical Proprietaries, Ltd., Spencer Rd., Belper, Derbyshire.

MANUFACTURING CHEMISTS have surplus of carbromal, cyclobarbitone, theobromine other fine chemicals for disposal. Please c Box 4/813.

PANCHROMATIC FILMS for sale. A better film with a better profit. No fogged edges. C spooled by pre-war manufacturer; no used ings. 20/62 sizes, 24s. per doz., also 27, 20s. 2s. 6d. carriage on 1 gross—4s. 6d. over. Geo Studios, 10 Jamaica St., Glasgow.

SACCHARIN TABLETS (standard) packed in Retailers 84/- per gross. 5 gross 5% disc Wholesalers 74/- per gross minimum 10 gross goods carriage paid. Cash with order. Box 4/811.

SACCHARIN TABLETS (standard) packed in One hundred gross to clear at 78/- per Single gross orders 1/- post extra. Write, 4/779.

SURPLUS STOCK new bottles. 40 gross 4-oz medicals at 15/- with screw caps. 50 gross winchesters with screw caps, 12/6. Box 4/7

UNUSED SURPLUS STOCKS. Offers invited bulk quantities. Samples post free. (1) 2 white glass panel bottles, white enamel screw 22s. gross; gilt caps. 17s. 6d. gross. Minimu gross. (2) 40 c.c. (1½ oz.) attractive ribbed bottles, amber, blue or green glass, gilt caps, 42s. gross. Minimum, 1 gross. (3) 22 screw caps: Aluminium, 7s. gross; gilt, 2s. gross; bakelite, 6s. gross. Minimum, 3 gross 5 c.c. vials neutral glass, white, 16s. gross; ar 18s. 6d. gross. Minimum, 3 gross. (5) R vaccine caps for (4) above, 6s. gross. Minir 3 gross. (6) Cardboard boxes, unprinted, incl divisions (for 12 1 oz. tubes 1 6/16 in. dia. x high), 16s. gross. Minimum, 1 gross. (7) C drical cardboard containers, inside 3 in. di 3⅜ in. high. Box 4/823.

FOR SALE

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LIQUORICE and menthol pellets; approx. 2 packed in 20 lb. tins. Write for sample and p stating quantity required. Box 4/803.

WANTED

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CAUSTIC SODA, Solid fused, and Flakes, Soda Light, Sodium Sulphide, Stearic Acid Triple pre Box 4/825.

HOMOGENISER required, power-driven type; small hand model. Bottles, glass, 8 lb. capa wide mouth. Regular supplies wanted. Box 4/

OLIVE OIL required in large or small lots. O to Box 4/832.

PEPPERMINT OIL, B.P., supplies required. Of stating amounts and price, to Box 4/824.

STEARIC ACID, triple pressed, required in l quantities. Box 4/2.

WANTED. "Pyrozide" tooth powder. Any ch ist holding a supply please communicate with 4/786.

WANTED. Mixer and sifter; approx. capa 70-100 lb. Send full details to Buckley-Bow Tablet Co., Ltd., 29 Parkfield Street, Lon N.1.

6½ OZ. SAUCE BOTTLES, 20 oz. bottles, car to hold 2 doz. 6½ oz. square type sauce bot bottle filling machine, cap screwing machine quired by small manufacturer. Box 4/799.

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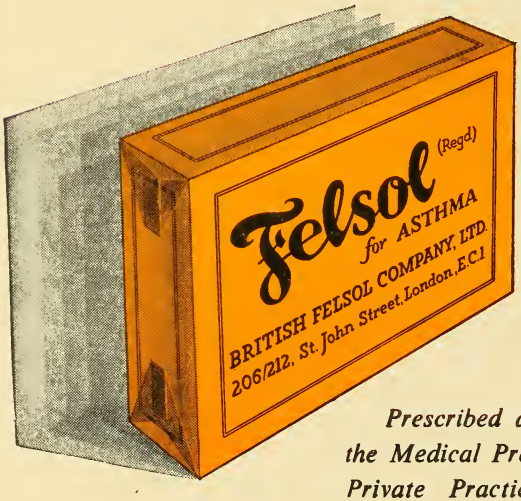

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